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PERSONAL.

Mr. W. J. Young has been appointed Chief Engineer of the Lehigh & New England R. R.

Mr. Edward Urig, Civil Engineer, has established an office in the new Crist Block, in Alliance, O.

Mr. E. N. Brown has been elected Third Vice-President and General Manager of the National R. R. of Mexico.

Mr. Clifford Lewis, Jr., former City Engineer of Utica, N. Y., has been appointed Police and Fire Commissioner of that city.

Mr. Joseph P. Wadhams, Civil Engineer, and Miss Mabel Clark, of New Haven, Conn., were married in that city on April 8.

Mr. E. H. Jackson, of Natchez, Miss., has been elected Secretary-Treasurer and General Manager of the Natchez Electric Street Ry.

Mr. G. A. Kyle has been appointed Division Engineer of the Northern Pacific R. R. at Tacoma, Wash., succeeding Mr. J. Q. Jamieson, resigned.

Mr. B. F. Dickson has been appointed Engineer of Maintenance of Way of the Kansas City Southern Ry., with headquarters at Kansas City, Mo.

Mr. Robert A. Cummings, M. Am. Soc. C. E., has removed his office from 714 Girard Building, Philadelphia, to 600 House Building, Pittsburg, Pa.

Mr. E. De Silva has been appointed to succeed Mr. W. J. Hemphill as Master Mechanic of the Santa Fe, Prescott & Phoenix Ry., with office at Prescott, Ariz.

Mr. T. T. Irving, of Montreal, Que., has been appointed Resident Engineer of the Eastern Division of the Grand Trunk Ry., with headquarters at Montreal, Que.

Mr. G. H. Schleyer has been appointed Superintendent of the Southwestern Division of the St. Louis & San Francisco Ry., with headquarters at Sapulpa, Ind. Ter.

Mr. C. Webster Raynor, Jun. Am. Soc. C. E., formerly in the U. S. Engineer's Offices at Detroit, Mich., is now connected with the Midland Bridge Co., Kansas City, Mo.

Mr. R. E. Danforth has resigned as General Manager of the Lake Shore Electric Ry. Co., of Cleveland, O., to associate himself with the Rochester Ry. of Rochester, N. Y.

Mr. G. E. Haywards has resigned as Roadmaster of the Chicago & St. Paul, Minneapolis & Omaha Ry., to accept the position of General Manager of the Bronson Portland Cement Co.

Mr. A. S. Rogers has been elected President of the Board of Water-Works Trustees of Wellsville, O., and Mr. William Perkins, Clerk of the Board and Superintendent of the water-works.

Mr. H. J. Simmons, Superintendent of the Arizona & New Mexico Ry., has resigned to become Chief Engineer of the El Paso & Southwestern Ry., with headquarters at El Paso, Tex.

Mr. J. W. Dawson, Civil Engineer of Johannesburg, South Africa, is now in this country for the purpose of purchasing mining machinery. He was recently in Minneapolis, Minn.

Mr. C. A. Dennis, Division Superintendent of the Canadian Pacific Ry. at Winnipeg, Man., has been transferred to the Mountain Division, where he will supervise the work of reducing the grades.

Mr. Luther Harold Burt, employed in the Engineering Department of the Pittsburg & Lake Erie R. R. at Pittsburg, Pa., was married on April 7 to Miss Cleo Le Seur at Schuylerville, N. Y.

Mr. Henry C. Nutt, Assistant Superintendent of the Iowa lines of the Chicago, Burlington & Quincy R. R., has been selected to succeed Mr. G. M. Levey as Superintendent of those lines.

Mr. M. H. Rogers, until recently Consulting Engineer of the Denver & Rio Grande Ry., has been appointed Chief Engineer of the Denver & Northwestern R. R., with headquarters at Denver, Colo.

Mr. O. M. Dunn, Superintendent of the Louisiana Division of the Illinois Central R. R., has been appointed to succeed Mr. M. Gilleas as Assistant Superintendent of that road, with headquarters at Memphis, Tenn., having in charge all the lines of the company south of the Ohio River.

Mr. E. R. Gilbert, General Manager of the Chicago Electric Traction Co., has resigned to become General Manager of the Miami & Erie Canal Transportation Co., with headquarters in Cincinnati, O.

Mr. Frank O. Du Four, Instructor in Civil Engineering at Lehigh University, has resigned to accept the position of Assistant Professor in Civil Engineering at the University of Cincinnati, O., to take effect May 1.

Mr. Frank H. Eno, Third Assistant Engineer in the City Engineer's Department of Columbus, O., has resigned to accept the position of Associate Professor of Mechanical Engineering at the Ohio State University.

Messrs. J. Edward Miles, of Easton, Pa., and Harrison R. Fehr, former City Engineer of Easton, have formed a partnership to engage in general contracting under the firm name of the Miles-Fehr Contracting Co.

Mr. A. C. Heller has been selected as Professor in the Department of Bridge Engineering and Steel Construction of the Ohio State University, and Mr. Frank H. Eno as Associate Professor in Municipal Engineering.

Mr. Irvine Watson, C. E., has resigned as engineer in charge of sewerage disposal at Fond du Lac, Wis., to take charge of surveys for 90 miles of the Menominie River, with a view of developing the water power of that stream.

Mr. Howard G. Taylor has resigned his position as Principal Assistant City Engineer of Williamsport, Pa., to accept a position in the Maintenance-of-Way Department of the Pennsylvania R. R., with headquarters at Williamsport.

Mr. Charles A. Goodnow, General Superintendent of the Chicago, Milwaukee & St. Paul Ry., has been appointed General Manager of the Chicago, Rock Island & Pacific Ry., succeeding Mr. Andrew J. Hitt, assigned to other duties.

Prof. Solin J. Bailey, of the astronomical observatory at Harvard University, will leave for the University's southern astronomical station at Arequipa, Peru, to study the peculiarities of Eros, the minor planet discovered five years ago.

Mr. J. A. Lebkuecker, former Mayor of Newark, has been appointed by Governor Murphy, of New Jersey, to take the place of Mr. Winton C. Garrison, who declined to accept the appointment to the Passaic Valley Sewerage District Commission.

Mr. W. T. F. Fiedler, Assistant Engineer Maintenance-of-Way Department of the Baltimore & Ohio Southwestern R. R., at Cincinnati, O., has resigned to accept a similar position in the Chief Engineer's office of the Louisville & Nashville R. R., at Louisville, Ky.

Mr. Charles A. Tinker, General Superintendent of the Eastern Division of the Western Union Telegraph Co., has resigned, and is succeeded by Mr. B. Brooks, Superintendent at Denver, Colo. Mr. Tinker had been with the Western Union for the past 21 years.

Mr. M. Gilleas has been elected Third Vice-President and General Manager of the Yazoo & Mississippi Valley R. R., with headquarters at Memphis, Tenn. Mr. Gilleas has heretofore been Assistant General Superintendent of the Illinois Central R. R. lines at Memphis.

Mr. E. H. Stiles, Civil Engineer, in the employ of the New York, New Haven & Hartford R. R., has resigned his position to accept that of Assistant Chief Engineer of the Fort Dodge & Mason City R. R., now in the course of construction between Fort Dodge, Ia., and Omaha, Neb.

Mr. Richard S. Buck, Dir. M. Am. Soc. C. E., Chief Engineer of East River Bridges Nos. 3 and 4, New York city, is reported to have tendered his resignation, to take effect May 1, and after that date he will become Chief Engineer of the Dominion Bridge Co., with headquarters in Montreal, Que.

Mr. Arthur S. Hobby, Jr., Assoc. M. Am. Soc. C. E., has resigned the position of Principal Assistant Engineer, District of Santiago, Cuba, to accept the appointment as Manager of the Guantanamo R. R., with headquarters at Guantanamo, Cuba, which duties he will assume early in May.

Prof. Alexander Agassiz, Naturalist, and his son, Mr. Maximilian Agassiz, who have been investigating the coral reefs of the Maldive Islands, in the Indian Ocean, arrived at New York city on the steamer "Deutschland" on April 10. Professor Agassiz will remain in America during the summer, after which he will resume his investigations in other parts of the world.

Mr. Winton C. Garrison, one of the five men appointed by Governor Murphy of New Jersey as Commissioner for the Passaic Valley Sewerage District, has declined to serve in that capacity, preferring to continue his present duties. Mr. Garrison is at present a member of the Board of Street and Water Commissioners of Newark, and the law under which that board was created forbids a member to hold any other public office.

Mr. C. B. Price, Division Superintendent of the Buffalo & Allegheny Division of the Pennsylvania R. R., at Pittsburg, has resigned and will retire from service. He commenced his railway career as a rodman on the Oil Creek & Allegheny Valley R. R. about 1870, but entered the transportation department in 1872. He was Chief Clerk to the General Superintendent of the Allegheny Valley R. R. until 1881, when he became Division Superintendent, and was made General Superintendent in 1898. When this road was absorbed by the Pennsylvania R. R. in 1900, Mr. Price was retained as Division Superintendent.

OBITUARY

Mr. Chandley L. Phelps, Civil Engineer, died April 4 at Alder Creek, N. Y.

Capt. Christopher Columbus Walcott, Civil Engineer, U. S. N., died at the Naval Hospital in New York on April 4.

Mr. James D. Leary, of the shipbuilding firm of James D. Leary & Sons, died April 11 in the Hoffman House in New York city, of heart disease. Mr. Leary was born in Canada in 1837.

Mr. William Harrison McKnew, a prominent business man of Washington, D. C., died at his home in that city on April 6. Mr. McKnew was born in Washington in 1855. By profession he was a Civil Engineer, graduating from the Rensselaer Polytechnic Institute in Troy, N. Y., and was engaged in engineering work until after 1885.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN RAILWAY ASSOCIATION.
April 23. Annual meeting at New York city. Secy., W. F. Allen, 24 Park Place, New York.

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.
April 23, 24. Annual meeting at Boston, Mass. Secy., C. J. H. Woodbury, Boston.

AMERICAN INSTITUTE OF MINING ENGINEERS.
May 13. Part II. of annual meeting, Philadelphia, Pa. Secy., R. W. Raymond, 99 John St., New York.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
May 20. Annual convention at Washington, D. C. Secy., C. W. Hunt, 220 W. 57th St., New York.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
May 27. Semi-annual meeting at Boston. Secy., F. R. Hutton, 12 W. 31st St., New York.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
May 20. Annual business meeting at New York. June 18, 19, 20, 21. Summer meeting at Great Barrington, Mass. Secy., R. W. Pope, 26 Cortlandt St., New York.

AMERICAN WATER-WORKS ASSOCIATION.
June 10. Annual convention at Chicago, Ill. Secy., Peter Milne, Bennett Bldg., New York.

PACIFIC NORTHWEST SOCIETY OF ENGINEERS.—This society elected the following officers for the coming year: President, Mr. R. H. Thompson; Vice-Presidents, Mr. Chas. Evan Fowler, Mr. J. E. Blackwell, Mr. J. G. Scurry; Secretary, G. F. Cotterill; Treasurer, A. H. Kiehl; Librarian, A. B. Coe.

ENGINEERS' CLUB OF PHILADELPHIA.—At the meeting of April 5, Mr. John Birkinbine read a paper originally scheduled for March 1, on the subject "Changes in the Manufacture of Pig-Iron." The development of blast furnaces was detailed and some notes given on improved methods of smelting as well as on modern methods of mining iron ore. On April 19, a paper related to this one will be read by Mr. Jas. Christie, with the title, "Modern Developments in the Production of Open-Hearth Steel."

L. F. Rondinella, Secy.

MASSACHUSETTS STREET RAILWAY ASSOCIATION.—The April meeting was held at Young's Hotel on April 9. The paper of the evening was read by Mr. Geo. B. Francis, Chief Engineer of the Union Railroad Co., of Providence, R. I., and was entitled "Improvements in Street Railway Construction." Mr. Francis referred to the improvements being made in the Providence street railway system; the most important of these, and the most interesting to the steam railway as well as the electric railway engineer, he summarized thus:

(1) Placing concrete stringers under the rail and doing away with ties altogether, on some sections of the line. (2) Decreasing tie-spacing to possibly 22 ins. c. to c., increasing width and length of ties to at least 7 ins. and 8 ft., respectively, and employing gravel ballast, at least a foot deep, under all ties. (3) Placing guard-rails on all curves of less than 600 ft. radius. (4) Placing the switch-tongue in most instances on the opposite side from usual practice, so that the main track will be free from the tongue; also, the use of a lock for switch-points as soon as a uniformly practicable method has been developed.

Chas. S. Clark, Secy.

AMERICAN ELECTROCHEMICAL SOCIETY.—A society of this name was formed and permanently organized at an open meeting held at Philadelphia, Pa., on April 3, 4 and 5. The movement for the formation of such a society was initiated by a number of persons interested in electrochemical work who are resident in and around Philadelphia. A call for a meeting to form a permanent organization was issued by them some weeks since and found large response. Over 300 persons signified their desire to join in the formation of the society, and nearly 100 of these attended the Philadelphia meeting in person.

The society organized with the following officers: President, Prof. J. W. Richards, of Bethlehem, Pa.; Vice-Presidents, Mr. C. E. Doremus, New York city; Prof. W. D. Bancroft, Ithaca, N. Y.; Prof. H. S. Carhart, Ann Arbor Mich.; Mr. C. M. Hall, Niagara Falls, N. Y.; Prof. L. Kahlenberg, Madison, Wis.; Mr. W. R. Whitney, Schenectady, N. Y.; Secretary, Mr. C. J. Reed, Philadelphia, Pa.; Treasurer, Mr. P. G. Salom, Philadelphia, Pa. The dues were fixed at $5 per year; details of the constitution were left to the board of directors, comprising, in addition to the above officers, a board of managers of eight gentlemen.

A number of papers was presented to the society, some of them of a high degree of interest. The subjects and authors were as follows: "A University Course in Electro-Chemistry," by Prof. J. W. Richards; "Electrodes," by Mr. C. L. Collins; "A Note on the Gladstone-Tribe Couple,"

by Prof. W. D. Bancroft; "The Nascent State," by Mr. C. J. Reed; "The Electrolytic Reduction of Lead," by Mr. P. G. Salom; "The Refining of Composite Metals," by Mr. T. Ulke; "A Novel Concentration Cell," by Prof. H. S. Carhart; "The Manufacture of Carbon Bisulphide in the Electric Furnace," by Mr. E. R. Taylor; "Current Electrochemical Theories," by Prof. L. Kahlenberg; "A Zinc-Bromine Storage Battery," by Mr. H. H. Dow; "Continuous Electrolysis of Solutions of Metals," by Mr. N. S. Keith; "A Method of Electrolytic Production of Zinc from its Ores," by Mr. S. S. Sadtler; "The Electrolytic Rectifier," by Prof. C. F. Burgess and Mr. C. Hambuechen; "On the Relative Speed of the Ions in Solutions of Silver Nitrate in Pyridine and Aceto-nitrile," by Mr. H. Schlundt; "Fall of Potential in Electrolytes," by Mr. Carl Hering; "Caustic Alkalies and Chlorine by the Dry Electrolytic Process," by Mr. C. E. Acker; "On a New Type of Electrolytic Meter," by Mr. K. Norden; "The Reversible Copper Oxide Plate," by Mr. W. M. Johnson; "A Thermodynamical Note on the Theory of the Edison Battery," by Mr. E. F. Roeber; "Electrolysis of an Aqueous Solution by Alternating Current," by Prof. J. W. Richards; "The Atom of Electro-Chemistry," by Mr. A. Reuterdahl.

NEW PUBLICATIONS.

THE INSPECTION AND TESTING OF CEMENTS.—By Richard L. Humphrey. Reprinted from the journal of the Franklin Institute, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 66; illustrated.

This pamphlet is one of the most concise and useful discussions of the subject which it covers that has recently been published. After describing in a brief general way the history of the development of the methods for testing cement, the author takes up and discusses concisely, with illustrations of the apparatus used, the most advanced practice in inspecting, sampling and chemical analysis; in testing for fineness, specific gravity, time of setting; in determining normal consistency, section of briquettes, molding, mixing, preservation of briquettes, and in testing for strength, constancy of volume, etc.

THE DECAY OF TIMBER and Methods of Preventing It. —By Hermann von Schrenk, Special Agent in Charge of the Mississippi Valley Laboratory. Pub. Doc., U. S. Department of Agriculture (Bureau of Plant Industry, Bulletin No. 14), Washington, D. C. Paper; 7 × 10 ins.; pp. 96; illustrated.

This interesting and valuable report opens with a description of the structure of timber and the factors which cause its decay. After a brief reference to tie preservation in this country it discusses the results of such treatment in Europe, as well as European practice in the selection, cutting, seasoning and general use of ties. An appendix gives the details of methods of treatment as specified for English, French and German railways. The report is illustrated by numerous diagrams and drawings, cross-sections of foreign railway track, etc., and beautifully executed reproductions of photographs of sections of ties and micro-photographs of timber structure.

GENERAL CONSTRUCTIONAL SPECIFICATIONS.—By Burton J. Ashley. Published by the Author, 1756 Michigan Boulevard, Chicago, Ill. Paper; 8 × 14 ins.; pp. 26; 50 cts.

The author introduces these specifications with the following explanation:

Covering a period of more than 22 years, the writer, in his practice, has been called upon to draw plans and specifications and to assist in the execution of widely differing and numerous forms of private and public contracts, covering engineering and building construction, and recognizing the need of some general form of specification that may be profitably used by interested parties and which will cover such principles of action as usually run through the execution of the various kinds of such construction, therefore offers to engineers, architects, corporations, officials, either public or private, and to proprietors as well, a systematic arrangement of forms of his own originating which have been long tested and found useful and effective in a general engineering and architectural practice, as well as including some of the best stipulations to be found in the forms of specifications used by other practical men of the profession.

As indicated, the specifications cover only the questions of general construction and to them are to be appended the special technical requirements and drawings suitable to the particular work in hand.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

FILING SYSTEM.—The Library Bureau, 215 Madison St., Chicago. Paper; 6 × 10 ins.; pp. 4; illustrated.

This pamphlet sets forth the advantages of the company's "vertical" filing system for correspondence, reports, etc.

STEAM PUMP.—Emerson Pump Co., Washington, D. C. Paper; 6 × 9 ins.; pp. 28; illustrated.

The Emerson pump, a novel type of steam pump for contractors' use and similar work, was described in our issue of Oct. 31, 1901.

GAS ENGINES.—Farrar & Trefts, Buffalo, N. Y. Paper; 9 × 6 ins.; pp. 29; illustrated.

This is a long argument for the use of "Bogart" gas engines, interspersed with numerous half-tone views of small and large sizes of these engines.

CHEMICALS.—The Grasselli Chemical Co., Cleveland, O. Paper; 5½ × 8 ins.; pp. 28; illustrated.

In a unique and striking form, as to illustrations and decoration, this catalogue describes various chemicals manufactured by this company and gives a brief history of the business itself.

BLASTING EXPLOSIVE.—Safety Explosive Co., 50 Broadway, N. Y. Paper, 4½ × 6 ins.; pp. 16.

Some interesting tests on "Masurite" were noted in Engineering News of March 27, 1902. This pamphlet enlarges on the facts illustrated in the tests.

FEED-WATER HEATERS.—Harrison Safety Boiler Works, Philadelphia, Pa. Paper; 3½ × 7½ ins.; pp. 29.

This catalogue is devoted to a list of users of the Cochrane feed-water heaters and purifiers, classified by types of manufacture, and giving full address.

FIREPROOF PAINTS.—Richmond Supply Co., Richmond, Va. Paper; 6 × 3½ ins.

The circulars of this company are devoted to the Ricinate fireproof paints and kalsomine, and give a large number of testimonials from users. Dura asphalta is an elastic roofing paint dealt in by the same company.

DRILL PRESS.—The Knecht Brothers Co., Cincinnati, O. Paper; 3½ × 6 ins.; pp. 12; illustrated.

The Knecht Sensitive drill press, which is here described, is driven by a pair of cones with an interposed shifting friction roller. A number of other features of the machine appear to make it particularly convenient and valuable for small work.

OIL FILTERS AND EXHAUST HEADS.—The Burt Mfg. Co., Akron, O. Illustrated.

A small pamphlet advertises the Cross oil filter, which purifies the oil by water as well as by layers of filtering material. Prices are given. A separate booklet treats of the Burt exhaust head, which is designed to trap the water and oil in the exhaust steam.

STEEL DUMP CARS.—Goodwin Car Co., 96 Fifth Ave., New York, N. Y. Paper; 9 × 6 ins.; pp. 40; illustrated.

The Goodwin car is shown here by sectional drawings and by numerous half-tone engravings showing a variety of materials being dumped from cars at rest and in motion, for ballasting, filling trestles, etc. Their use for loading coal into barges is also shown.

WATER METERS.—Thomson Meter Co., 70 Washington St., Brooklyn, N. Y. Paper; 6 × 7 ins.; pp. 8; illustrated.

This is a descriptive priced catalogue of ⅝ to 6-in. Lambert meters. It will be worth the while of all users of meters to secure the new catalogue, since the prices given are a reduction of 10% from those in force prior to Feb. 1.

ROAD-MAKING MACHINERY.—Climax Road Machine Co., Marathon, N. Y. Paper; 9¼ × 6 ins.; pp. 36; illustrated.

By text and full-page illustrations this new catalogue describes the various types of road-making machinery manufactured by this company. The list covers about everything used in that industry in the way of machines and tools.

THE LOCOMOBILE IN WAR.—Paper; 4 × 5½ ins.; pp. 14. The Locomobile Co. of America, 7 East 42d St., New York City.

In this little pamphlet is printed an interesting letter from Capt. R. S. Walker, of the Royal Engineers, describing the varied uses to which he put a locomobile in connection with military work about Pretoria. Besides running the machine over the rough veldt and through rivers where the water was over the wheel hubs, Captain Walker used it to run a dynamo to explode mines and operate a searchlight, hauled a trailer behind it for the transport of supplies and on occasion drew hot water from the boiler to make tea.

BRISTOL STANDARD RECORDING WATER LEVEL GAGES.—Pamphlet; 9 × 12 ins.; 4 pp.

The apparatus described in this circular makes a continuous record in ink on a revolving chart, showing the rise or fall of water in a reservoir, tank, standpipe, millrace, or any other body of water. It differs from all other instruments used for this purpose in that no float is used. Instead the height is determined by recording the variations in pressure upon a submerged instrument containing a flexible diaphragm. Connection is made from this diaphragm by a capillary tube to the recording dial, which may be located a considerable distance away, in an office or other convenient point. The advantage of having the instrument submerged is that it is not interfered with by floating debris or by ice.

ELECTRICAL MACHINERY.—General Electric Co., Schenectady, N. Y. Paper; various sizes; illustrated.

This lot of new advertising matter of the company comprises besides their regular standard series publications several special booklets. One of these, entitled "Small Motors," covers motors for machine tools and similar uses. The motors are for direct, for single-phase alternating current, the latter being provided with a condenser compensator, or for polyphase currents. Sewing machine motors and automobile motors are special types. Another booklet reproduces two papers by C. D. Haskins on "Meters and Revenue" and "Some Fundamentals of Electric Meters." A third is a complete catalogue and price list of fan motors. The large-size regular bulletins are: No. 4279, showing a rail-bond composed of copper cable with copper heads having a steel rivet in the center which is powerfully compressed after the bond is inserted in the rail; 4280, which shows a two-rate meter designed to allow a lower rate during minimum demand periods; 4281, showing the multiple-unit train control system; 4282, showing Thomson polyphase recording wattmeters; and 4283, showing the solid or box-frame type of railway motors. The small sheets show direct constant current enclosed arc lamps, and rack cable-insulators; a price list of snap and push-button switches accompanies them.

CONSTRUCTION NEWS

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS

Bids to be opened	Work.	Place.	Eng News
Apr 17.	Brick roads, St. Louis, Mo.		Mar 27
Apr. 17.	Piles and lumber, Fort Monroe, Va.		Mar 20
Apr. 17.	Cement sidewalks, Connorsville, Ind.		Mar 20
Apr. 17.	Water-works and sewers, Newcastle, N.		Apr. 10
Apr. 17.	School, Middletown, Ind.		Apr 10
Apr. 17.	Sewerage system, Phoebus, Va.		Apr 10
	Advertised, Engineering News, April 10		
Apr. 17.	Wharf extension, Ottawa, Ont.		Apr 17
Apr. 18.	Building, Austin, Tex.		Apr 17
Apr 18.	Dam and bridge, Peterborough, Ont.		Apr 17
Apr. 18.	Sewer, Hazleton, Pa.		Apr 17
Apr. 18.	Bridge abutments, New Philadelphia, O		Apr 17
Apr. 18.	Sewerage system, etc., Westerville, O		Apr 17
Apr. 19.	Dwelling addition, Atlantic City, N. J.		Apr 17
	Advertised, Eng. News, Mar. 27 and A		
Apr. 19.	Quay walls, Mare Island Navy Yard, C		Mar 27
Apr. 21.	Water-works, Sloan, Ia.		Mar 27
	Advertised, Eng. News, Mar. 27 to Apr.		
Apr. 21.	Extending w.-w., Jefferson Barracks, Mo		Apr. 3
Apr. 21.	Brick paving, Bradford, Pa.		Apr. 3
	Advertised, Eng. News, Apr. 3 to 24.		
Apr. 21.	Cement sidewalks, Connersville, Ind.		Apr. 3
	Advertised, Eng. News, Apr. 3 and 10		
Apr. 21.	Grading, etc., Washington, D. C.		Apr. 3
Apr. 21.	Paving bonds, Cambridge, O.		Apr. 3
Apr. 21.	Street improvement, Cincinnati, O.		Apr. 3
Apr. 21.	Paving, Toledo, O.		Apr. 3
Apr. 21.	Water-works, Denton, Md.		Apr. 10
	Advertised, Engineering News, April 10		
Apr. 21.	School, East Liverpool, O.		Apr. 10
Apr. 21.	Sewers, Kokomo, Ind.		Apr. 10
Apr. 21.	Crushed bluestone, Hasbrouck Heights, N. J.		Apr. 10
	Advertised, Eng. News, Apr. 10 and 17.		
Apr. 21.	Street work, Fort Dodge, Ia.		Apr. 10
Apr. 21.	Library building, Fresno, Cal.		Apr. 17
Apr. 21.	Street sprinkling, Indianapolis, Ind.		Apr. 17
Apr. 21.	Paving, etc., Michigan City, Ind.		Apr. 17
Apr. 22.	Iron bridge, Annapolis, Md.		Apr. 17
Apr. 22.	Wireless telegraph, Alaska.		Apr. 17
Apr. 22.	Brick paving, Asheville, N. C.		Apr. 17
Apr. 22.	School, Grand Rapids, Wis.		Apr. 10
Apr. 22.	Trunk sewers, Nashville, Tenn.		Apr. 10
	Advertised, Eng. News, Apr. 10 and 17.		
Apr. 22.	Storm sewer, Dayton, O.		Apr. 10
Apr. 22.	Sewer bonds, Lakewood, O.		Apr. 10
Apr. 22.	Bridge, South Berwick, Me.		Apr. 3
	Advertised, Engineering News, April 3.		
Apr. 22.	Water mains, Boston, Mass.		Apr. 3
	Advertised, Engineering News, April 3.		
Apr. 22.	Storm sewer, Columbus, O.		Apr. 3
Apr. 22.	Water mains, Asheville, N. C.		Mar. 27
	Advertised, Eng. News, Mar. 27 to April 17.		
Apr. 22.	Sanitary sewers, Bessemer, Ala.		Mar. 27
	Advertised, Eng. News, March 27 to April 24.		
Apr. 22.	Steel bridges, etc., Decatur, Ind.		Mar. 20
Apr. 22.	Bridge superstructure, Columbus, Ga.		Mar. 20
Apr. 23.	Stop-cocks, Calcutta, India.		Feb. 27
Apr. 23.	Court house extension, Newark, N. J.		Mar. 27
Apr. 23.	Bridge draw, Chestertown, Md.		Mar. 27
Apr. 23.	Paving, etc., Cleveland, O.		Apr. 3
Apr. 23.	Pumping machinery, Ft. Ethan Allen, Vt.		Apr. 10
	Advertised, Eng. News, Apr. 10 and 17.		
Apr. 23.	Removing garbage, etc., Hoboken, N. J.		Apr. 10
Apr. 23.	Street improvement, Hoboken, N. J.		Apr. 10
Apr. 23.	Building, Richmond, Va.		Apr. 17
Apr. 23.	Repairing baths, New York, N. Y.		Apr. 17
Apr. 23.	Conduits, etc., Agricultural College, Mich.		Apr. 17
Apr. 23.	Outlet sewer, New York, N. Y.		Apr. 17
Apr. 23.	Sewer, West Hoboken, N. J.		Apr. 17
Apr. 23.	Paving, Buffalo, N. Y.		Apr. 17
Apr. 24.	School, Belmont, Wis.		Apr. 17
Apr. 24.	Sewer work, Methuen, Mass.		Apr. 17
Apr. 24.	Sanitary sewers, Bedford, Ind.		Apr. 10
Apr. 24.	Sewers, Cleveland, O.		Apr. 3
Apr. 25.	Pumps, pipe, etc., Lewiston, Idaho.		Apr. 3
Apr. 25.	School, Columbus, O.		Apr. 10
Apr. 25.	Building, Springfield, Ill.		Apr. 17
Apr. 25.	Steam road roller, Rutherford, N. J.		Apr. 17
	Advertised, Engineering News, Apr. 17.		
Apr. 25.	Repairing fire engines, etc., New York		Apr. 17
Apr. 25.	Bridge material, Minneapolis, Minn.		Apr. 17
Apr. 26.	Water pipe, Monaca, Pa.		Apr. 17
	Advertised, Eng. News, Apr. 17 and 24.		
Apr. 26.	Building, Port Norris, N. J.		Apr. 17
Apr. 26.	County bridges, Bay City, Mich.		Apr. 17
Apr. 26.	Dredging, League Island, Pa.		Apr. 17
Apr. 26.	Railroad scale, League Island, Pa.		Apr. 17
Apr. 26.	Building, Philadelphia, Pa.		Apr. 3
Apr. 26.	Bridge removal, etc., St. Louis, Mo.		Apr. 3
Apr. 26.	Paving, Conneaut, O.		Apr. 3
Apr. 28.	Electric work, Georgetown, Penang, S. S.		Mar. 27
Apr. 28.	Cement, etc., Boston, Mass.		Apr. 3
	Advertised, Eng. News, Apr. 3 to May 1.		
Apr. 28.	Asylum building, Burlington, Ia.		Apr. 10
Apr. 28.	Highway bridge, Zanesville, O.		Apr. 10
Apr. 28.	Brick sewer, Toledo, O.		Apr. 10
Apr. 28.	Repaving, Toledo, O.		Apr. 10
Apr. 28.	Electric plant and dam, Brattleboro, Vt.		Apr. 17
Apr. 28.	Bridge substructure, Goshen, N. Y.		Apr. 17
	Advertised, Engineering News, Apr. 17.		
Apr. 28.	Sewerage work, Cleveland, O.		Apr. 17
Apr. 29.	Water pipe, etc., Medford, Mass.		Apr. 17
	Advertised, Eng. News, Apr. 17 and 24.		
Apr. 29.	Roadway, New Orleans, La.		Apr. 10
Apr. 29.	Life saving stations, Washington, D.C.		Apr. 17
	Advertised, Engineering News, Apr. 17.		
Apr. 29.	Bridge, South Bend, Ind.		Apr. 17
Apr. 29.	Water mains, etc., Asheville, N. C.		Apr. 3
	Advertised, Eng. News, Apr. 3 to 17.		
Apr. 29.	Storm sewer, Williamsport, Pa.		Apr. 3
	Advertised, Eng. News, Apr. 3 and 10.		
Apr. 29.	Paving, Williamsport, Pa.		Apr. 3
	Advertised, Eng. News, Apr. 3 and 10.		
Apr. 30.	Excavating, etc., Boston, Mass.		Apr. 3
	Advertised, Eng. News, Apr. 3 to May 1.		
Apr. 30.	Officers' quarters, Annapolis, Md.		Apr. 17
Apr. 30.	Sidewalks, Rutledge, Del.		Apr. 17
Apr. 30.	Street improvement, Glenville, O.		Apr. 17
May 1.	Water pipe, etc., Yonkers, N. Y.		Apr. 10
	Advertised, Engineering News, Apr. 10.		
May 1.	Lodge building, Fort Leavenworth, Kan.		Apr. 10
May 1.	Bridges (4), Pike, O.		Apr. 17
May 1.	Sewers, Adam, Minn.		Apr. 17
May 1.	Dock construction, Calumet Harbor, Ill.		Apr. 3
	Advertised, Eng. News, Apr. 3 to May 1.		
May 1.	Rolling lift bridge, Manila, P. I.		Mar. 13
May 2.	Boats, Charleston, W. Va.		Apr. 3
	Advertised, Eng. News, Apr. 3 to May 1.		
May 2.	Water pipe, etc., Cincinnati, O.		Apr. 17
May 2.	Paving, etc., Salt Lake City, Utah		Apr. 10
	Advertised, Eng. News, Apr. 10 and 17.		
May 3.	Reservoir, etc., Fort Greble, R. I.		Apr. 10
May 3.	Building, Portsmouth, N. H.		Apr. 10
May 3.	Street improvement, Marion, O.		Apr. 10
May 3.	School, Cromwell, Ind.		Apr. 17

May 2. Bridges, Lafayette, Ind. .....Apr. 17
May 2. Jail and court house, Jeffersonville, Ga....Apr. 3
May 2. Court house, Salt Lake City, Utah.....Mar. 27
May 2. Barracks, Fort Myer, Va. .....Apr. 17
May 5. Highway improvement, Albany, N. Y.....Apr. 17
Advertised, Eng. News, Apr. 17 to May 8.
May 5. Pumping plant, Fort Terry, N. Y.....Apr. 10
May 5. Steel bridge, Quincy, Cal. .....Apr. 17
May 5. Open canal, New Orleans, La.....Apr. 17
May 5. Paving repair, Topeka, Kan. .....Apr. 17
May 5. Filling, sea wall, Washington, D. C.....Apr. 10
Advertised, Eng. News, Apr. 10 and 17, May 1.
May 5. Intercepting sewer, Cleveland, O.....Apr. 17
Advertised, Eng. News, Apr. 17 to May 1.
May 6. Bridge, Indianapolis, Ind. .....Apr. 17
May 7. Market building, Santander, Spain.....Feb. 20
May 7. Electric water pump, Montreal, Que.....Apr. 3
Advertised, Engineering News, Apr. 3.
May 7. Vault doors, Washington, D. C.....Apr. 10
Advertised, Eng. News, Apr. 10 to May 8.
May 7. Bridges, Valdosta, Ga. .....Apr. 10
May 7. Bridges (13), Terre Haute, Ind.....Apr. 17
May 7. Street paving, etc., Jacksonville, Fla.....Apr. 17
May 8. Covered canal, New Orleans, La. .....Apr. 10
Advertised, Eng. News, Apr. 10 to May 8.
May 8. Water-works, East Jaffrey, N. H. .....Apr. 17
Advertised, Eng. News, Apr. 17 and 24.
May 8. Reservoir, etc., Troy, N. Y. .....Apr. 17
Advertised, Eng. News, Apr. 17 and 24.
May 8. Outlet sewer, Newark, N. J. .....Apr. 17
Advertised, Eng. News, Apr. 17 to May 8.
May 9. Light-house supplies, Tompkinsville,, N.Y. Apr. 17
Advertised, Eng. News, Apr. 17 to May 15.
May 9. Gravel road, Lakewood, N. J. .....Apr. 17
May 10. Metal work, material, etc., Baltimore.....Apr. 17
Advertised, Engineering News, Apr. 17.
May 12. High-level sewer, Boston, Mass. .....Apr. 17
Advertised, Engineering News, Apr. 17.
May 12. Roads, etc., New London, Conn. .....Apr. 17
May 12. Paving etc., Jacksonville, Fla. .....Apr. 17
May 12. Railway, Portugese West Africa.....Feb. 13
May 12. Water-works, Lexington, Mo.....Mar. 27
Advertised, Eng. News, Mar. 27 and Apr. 3.
May 13. Dredging, Wheeling, W. Va.....Apr. 17
Advertised, Eng. News, Apr. 17 to May 15.
May 14. Wharf, Fort Getty, S.C.....Apr. 17
Advertised, Eng. News, Apr. 17 to May 15.
May 14. Building, Annapolis, Md.....Apr. 10
May 17. Buildings, etc., Tampa, Fla. .....Apr. 10
May 24. Building, Vallejo, Cal.....Apr. 17
May 26. Post office, Freeport, Ill.....Apr. 17
May 31. Wharf, Hilo, H. I. .....Apr. 10
Jun. 11. Sand washers, Calcutta, India.....Apr. 17
June 30. Electric tramways, Shanghai, China.....Mar. 13
July 1. Power plant, Los Angeles, Cal.....Mar. 20
Sept. 1. Bridge plan, St. Petersburg, Russia.....Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 3.
No date. R'y work & equipment, West Camp, N.Y..Apr. 3
Advertised, Engineering News, April 3.

RAILWAYS.

ATLANTIC & BIRMINGHAM.—Reports state that contracts are being let by this company for work in connection with the construction of the line between Cordele and Montezuma, Ga., a distance of 35 miles. Geo. D. Wadley is Vice-Pres. and Gen. Mgr., Waycross, Ga.

BALSAM LAKE & WESTERN.—This company has filed articles of incorporation in Wisconsin, with a capital stock of $25,000, to build a road 12 miles in length, extending from Balsam Lake to the village of St. Croix Falls. W. H. Hooper, Alonzo Tuttle and W. C. Johnson are incorporators.

BILLINGS & NORTHERN.—Articles of incorporation will be filed in Billings, Mont., on May 1, the purpose of the organization being to construct a road from Billings to Great Falls, Mont. Among the incorporators are G. W. Holdredge, J. G. Taylor and G. W. Loomis, all of whom are connected with the Chicago, Burlington & Quincy road. The road will form a connecting link between the Burlington, Great Northern and Northern Pacific roads. The capitalization will be $6,000,000.

BIRMINGHAM MINERAL.—Smith & Hernon, Jasper, Ala., have received a contract for seven miles of culvert work on the extension of this road in Blount county, Ala. The amount of the contract is about $6,000.

BRITISH COLUMBIA.—Mackenzie & Mann, Toronto, Ont., will probably build an independent line of railway between Victoria, B. C., and Nanaimo.

BUFFALO, ROCHESTER & PITTSBURG.—J. M. Floesch, Ch. Engr., Rochester, N. Y., writes us that the contract for building the extension of this road from a point north of Punxsutawney, on the main line, in a southerly direction to the new coal fields in Indiana county, Pa., a distance of 28 miles, was let on April 1 to A. E. Patton, Curwensville, Pa. The contract includes the grading and the masonry work along the entire distance. There will be several steel bridges, the contract for which has been let to the American Bridge Co. The line will be laid with oak ties and 80-lb. steel, and stone and cinder ballast. A contract has also been let to E. C. Lauer, Rochester, for six miles of second track work on the main line between Falls Creek and Lanes Mills, and L. B. Fitch, Rochester, for nine miles of second track work between Ridgway and Johnsonburg, on the main line. There are numerous bridges on this work, all of which will be built by the American Bridge Co. The company is also building, with their own forces, five miles of double track between S. & B. Junction and Carrollton. This includes the rebuilding of masonry for several bridges and the renewal of the steel structures, single track spans being replaced by double. A reduction of grades will also be made on this five miles of road, reducing the former grade of 52 ft. to the mile to a 21-ft. grade. An undercrossing at South Park Ave. at the city limits of Buffalo has been ordered by the railroad commissioners. This work is now under contract and will be completed during the present season. There will also be 20 miles of new steel laid on the line and various other improvements made during the coming year.

BURLINGTON, CEDAR RAPIDS & NORTHERN.—The council of Minneapolis, Minn., has granted a franchise to this company for constructing terminals. Work is to begin at once. H. T. White is Ch. Engr., Cedar Rapids, Ia.

BURLINGTON & NORTHERN.—A certificate of incorporation has been issued by the secretary of state of Montana to this company, whose purpose is to build an extension of the Chicago, Burlington & Quincy from Billings, Mont., 191 miles northwest, connecting with the Great Northern at Armington, with such branches as it may find necessary. The line will traverse a rich stock-growing and mining country. C. W. Holdredge and J. G. Taylor, of Omaha, Neb., and H. B. Segur, Billings, are incorporators. (See Billings & Northern, in these columns.)

CANADA NORTHERN.—J. N. Greenshields, solicitor for this company, is said to have successfully concluded negotiations for the grants of land and subsidies for an extension from Yellow Head Pass, in the Canadian Rockies, to the coast at Butte Island, to connect with the road being built from Lake Superior. The grants are for 20,000 acres of land to the mile, and a subsidy of $4,800 to the mile for the first 50 miles, and $4,000 a mile for the line to Quesnel, and from that point to the eastern boundary of British Columbia, $4,500 a mile.

CANADIAN NORTHERN.—McMillan Bros., Winnipeg, Man., have secured a contract for building an extension from a point on the Portage La Prairie line to Nepawa, Man.

CENTRAL FLORIDA & GULF COAST.—A mortgage has been placed by John H. Dawe, Gen. Mgr., in Florida, in favor of the Standard Trust Co. of New York, at $15,000 per mile. This road is proposed from Plant City to Boca Grande, via Braidentown and Sarasota. Mr. Dawe expects the road to be completed within one year, covering a distance of 135 miles. It passes through a rich section of the state, at present undeveloped and without railway facilities. The right of way and charter have been secured. T. A. Allen is Ch. Engr., Tampa, Fla.

CENTRAL RY. OF ALABAMA.—John Carlisle, Pres., Cincinnati, O., writes us that contracts for building this road will probably be let in May or June. A preliminary line has been run for 75 miles and the permanent location is now being made. The rights of way are partially secured and the construction capital provided for. The length of this road will be 160 miles. It will be a steam road, and will touch at New Decatur, South Florence and Tuscaloosa, the first and last named being the termini. W. C. Crozier is Chief Engineer, New Decatur, Ala.

CHARLOTTE, MONROE & COLUMBIA.—Ernest Williams, Pres., Lynchburg, Va., writes that the company will contract for 10 miles of additional road this month. The line now operating is 12 miles in length, and the projected length is 32 miles.

CHESAPEAKE & WESTERN.—E. W. Jackson, Ch. Engr., Harrisonburg, Va., informs us that surveys are being made from Gordonsville, Va., to Greenbrier River, W. Va., with branch lines to coal fields. De Witt Smith is Pres., 141 Broadway, New York.

CHICAGO, MILWAUKEE & ST. PAUL.—It is reported that a yard for the accommodation of ore traffic is to be built at Quinnesec Junction, near Iron Mountain, Mich. More than five miles of track will be laid.

CINCINNATI, RICHMOND & MUNCIE.—H. L. Jackson, Ch. Engr., Richmond, Ind., informs us that contracts for the construction of the south end of this line into Cincinnati, O., will be let in about four weeks. The road will run from Cincinnati to Chicago. That part of the road running from North Judson to Griffith is now covered. The contractors having the grading work are A. D. Toner and Harworth & Son, and the contractors for bridging are Howland & Hood.

COLUMBIA RIVER & NORTHERN.—H. C. Campbell, Gen. Mgr., 263 Yamhill St., Portland, Ore., informs us that the rights of way have been secured for the company's road and bids will be invited in less than 30 days. The construction capital is secured. This line will be 50 miles in length, running from Goldendale, Wash., to Lyle, on the Columbia River; from that place connection will be had with Portland by steamers. The distance between the two last named points is about 78 miles. The route of the line will be through a rich agricultural valley, and extensive forest lands will also be tapped. Rufus Mallory is Pres., and Emery Oliver Ch. Engr., Portland.

COLUMBIA SOUTHERN EXTENSION.—A. E. Hammond, Ch. Engr., Shaniko, Ore., writes that the preliminaries for the line of railway between Shaniko and Bend, a distance of 100 miles, have been completed. E. E. Lytle is Pres., Portland, Ore.

DENVER, KANSAS & ATLANTIC.—H. K. Bickford Pres., is reported to have stated that the construction of the line through Oklahoma will soon be started. The route for the line has been laid out.

DENVER & RIO GRANDE.—A contract is reported to have been let to Deal Bros. & Mendenhall for grading 27 miles of road from Salina, Utah, towards Emery county. Work will be started at Salina.

DENVER & RIO GRANDE.—The contract for the North Fork branch of this road, extending from Delta, Colo., to Paonia and to the coal fields north of the latter place, has been let to Deal Bros. & Mendenhall, contractors, of Springville, Utah. The construction will be started at once. The line to Paonia will be 45 miles long, and is expected to be finished by Oct. 1. The total length of the extension will be about 55 miles. The road will follow the Gunnison River, and will be eventually a broad gage road.

DES MOINES, IOWA FALLS & NORTHERN.—It is stated that a preliminary survey has been made by R. C. Young, Ch. Engr., Iowa Falls, Ia., for the line running from that city to Osage.

DULUTH & NORTHERN MINNESOTA.—Reports state that the company will build an extension of its line connecting with the Duluth, Port Arthur & Western, also a line from Knife River into Duluth, Minn. A location survey has been made for the line from Knife River to Duluth. The capital stock is to be increased from $200,000 to $1,000,000.

EAGLE'S MERE.—An extension of five miles is proposed. The extension will be for the purpose of furnishing facilities for handling the lumber to be cut in Sullivan county. W. Clayton Mason is Ch. Engr., La Porte, Pa.

FLORIDA SOUTHERN & GULF.—Samuel G. Artingstall, Ch. Engr., 240 Rialto Bldg., Chicago, Ill., writes that preliminaries are being completed by the officers of this company, now in New York city, and that he will leave for Punta Rossa, Fla., in a few days to commence the construction of the buildings, docks, etc., at that place, for which some of the materials are now on the site. John M. Roach is Pres., 444 North Clark St., Chicago.

FREMONT, ELKHORN & MISSOURI VALLEY.—Extensions are reported planned by this company from Deadwood to Lead over Deadwood Gulch, five miles, to cost about $50,000, and from Verdigree, Neb., to Mobara, through Boyd county to Sparks, and thence north to the Rosebud Indian agency, from 125 to 150 miles. Geo. F. Bidwell is Gen. Mgr., Omaha, Neb.

KNOXVILLE, LA FOLLETTE & HARRIMAN.—A charter has been filed in Knoxville, Tenn., by this company, capitalized at $1,000,000, which proposes to build a line extending from Knoxville to Jellico, connecting the Atlanta, Knoxville & Northern and the Louisville & Nashville roads, having a length of 65 miles. Work will be started as soon as surveys can be made. John B. Newton, Gen. Mgr. Atlanta, Knoxville & Northern, is President of the new company.

ILLINOIS.—The council of Chicago has passed an ordinance requiring the elevation of tracks in that city by Jan. 1, 1908. The railways and trackage effected are as follows: Chicago, Burlington & Quincy, 28 miles; Chicago & Northwestern, 33 miles; Pennsylvania roads, 11 miles; Chicago Terminal Transfer Co., 13 miles; Chicago Junction, 5 miles; Atchison, Topeka & Santa Fe., one mile.

IOWA CENTRAL.—A contract has been let by this company to the Walsh Construction Co., Davenport, Ia., for the revised location of "Schoolhouse" hill, six miles in length, betweeen G. & M. Junction and Scarsboro. The work will cost about $50,000. It will be started at once.

LONG ISLAND R. R.—This company has decided to double-track its line from Valley Stream to Lawrence, N. Y. The cost of the work will be between $45,000 and $60,000. It is reported that the company's lines from Far Rockaway to Mineola, through Valley Stream, will be electrified, at an estimated cost of $165,000. These improvements will be started in the fall and will be completed by next year. P. D. Ford is Engr. M. W., Long Island City, N. Y.

LICK CREEK & LAKE ERIE.—J. W. Dawson, Gen. Mgr., St. Paul, Va., writes that the construction of this road has begun with a large force of men working on the grade near St. Paul, Va., where it connects with the Clinch Valley Division of the N. & W. R. R. The intention is to extend it northwest up the valley of Lick Creek to the coal fields in Big Sandy Mountain, and in the counties of Wise, Dickenson and Russell, Va. The exact mileage to be constructed will not be decided until summer. The organization of the company was perfected on March 26, and the officers elected as follows: Stilson Hutchins, of Washington, D. C., Pres.; Wm. J. Dante, of Charleston, W. Va., Secy. and Treas., and Mr. Dawson, Gen. Mgr.

MISSOURI PACIFIC.—A charter is being prepared for the construction company which intends to build a line connecting McPherson, Kan., and Marquette. It is expected that preliminaries will be arranged in 30 days and that work will be commenced soon after. The construction company will be chartered with a capital stock of $200,000. John C. Johnson, Newton; J. A. Foster, Marquette, and J. B. Darrah, McPherson, are directors.

MISSOURI, KANSAS & TEXAS.—The contract for grading the Southwestern & Wybark extension was to have been let at St. Louis, Mo., on April 11.——President Rouse is reported to have said that a cut-off will be built through Austin, Tex., a distance of 75 miles.

MUSKOGEE & WESTERN.—Bids were recently called for by W. W. Townsend, Room 1112 Merchants Loan & Trust Bldg., Chicago, Ill., to be opened on April 12, for constructing about 158 miles of road for this company in Indian and Oklahoma Territories.

NEW YORK CENTRAL AND HUDSON RIVER.—This company is said to be preparing to expend in the neighborhood of $1,000,000 in the improvement of its western division, the work to be confined chiefly to that section between Syracuse, N. Y., and Buffalo. The improvements will be mostly in the nature of new alinement of roadbed, the elimination of curves by tunnels and the like. W. J. Wilgus is Ch. Engr., Grand Central Station, New York.

NEW YORK, TEXAS & MEXICAN.—The stockholders will meet on April 16 for the purpose of authorizing an amendment to the charter to provide for an extension for the present terminus at Van Vleck station, Tex., in Matagorda county, into Brazoria county, for a distance of 20 miles, and for such other extensions as the stockholders may determine. B. M. Smith is Secy., Houston, Tex.

OKLAHOMA & TEXAS SOUTHERN.—T. D. Smith, Fredericksburg, Tex., informs us that surveys from Spanish Fort, Tex., to Weatherford, have been completed and rights of way partly secured. The capital for construction has not yet been provided for and no date has been set for awarding contracts. The line will be 200 miles long, running from Spanish Fort to Nocona, Montague, Sunset, Weatherford, Glen Rose and Waco. W. A. Squires is Pres., Henrietta; and McKeon Johnstone is Ch. Engr., Stephenville, Tex.

PENNSYLVANIA R. R.—A contract has been let to H. S. Kerbaugh & Co., of Philadelphia, for the extension of the company's yards from Altoona, Pa., to Bellwood, six miles east, at a cost of about $450,000.

QUEBEC & LAKE HURON.—The contract for the construction of the 500 miles of road has been let to Robert J. Campbell. It is also reported that Mr. Campbell has the contract for equipping the road. The company has offices in Montreal, Que.

SOUTH & WESTERN RY.—This company has been incorporated in Kentucky with a capital stock of $10,000, to build a road 40 miles in length, extending from the Breaks of Sandy to Pikeville. The Seaboard Air Line is said to be behind the new enterprise. R. T. Irvine, Big Stone Gap, Va.; John B. Payne and Chas. Kerr, Lexington, Ky., are incorporators.

TOLEDO, ST. LOUIS & NEW ORLEANS.—Articles of incorporation have been filed in Illinois, according to reports. The company is capitalized at $50,000, and will build a line from a point in Shelby county to a point in Massac county, on the Ohio River. C. E. Hilts, N. M. Burns and Wm. R. Tate are directors.

ZANESVILLE TERMINAL.—Incorporated in Ohio, with a capital stock of $300,000, to construct a steam road for terminal purposes, having Zanesville, West Zanesville and Muskingum for its termini. R. R. Rogers, Walter D. McKinney and James E. Marion are incorporators.

STREET AND ELECTRIC RAILWAYS.

GREENVILLE, ME.—W. H. Trafton, of this place, informs us that nothing further than the organization of the Kineo Electric Ry. Co. has been done towards the construction of the electric line between Squaw Mt. township and Greenville, three miles. Contracts will probably be let this spring. V. W. McFarlane is Pres.

CONCORD, N. H.—Articles of agreement have been filed by the Nashua & Pepperell St. Ry., with a capital stock of $35,000, which is organized for the purpose of building an electric line between Nashua and the Massachusetts state line. Wallace D. Lowell, of Newton, Mass., is interested.

NEWMARKET, N. H.—The railroad commissioners have been petitioned for a franchise for the Newmarket, Exeter & Portsmouth St. Ry., of which W. D. Lovell and John W. Sanborn are the promoters.

HAVERHILL, MASS.—W. H. Maxwell, of this city, will ask the board of aldermen for a location for a street railway in this place, to be 2½ miles in length. It will be known as the Haverhill & Groveland St. Ry., and will be capitalized at $25,000. Edwin T. McKnight, Boston; Geo. C. Foster, Haverhill, and John T. Small, Groveland, are interested.

LINCOLN, MASS.—The Providence & Worcester Traction Co. has been incorporated to build and operate a line of railway in Woonsocket and the towns of Lincoln and North Smithfield. The capital stock is $1,000,000. John D. Turner, Jas. W. Walker and J. Barker Carter, of Zanesville, Mass., are interested.

NEWPORT, R. I.—The incorporators of the proposed new electric road on the West Main Road have effected a temporary organization, with James Anthony, of Middle-

town, as chairman. The charter granted by the legislature was accepted. The line will be known as the Newport & Bristol Ferry Ry. Co.

PROVIDENCE, R. I.—A charter has been granted to the Westerly & Hopkinton Ry. Co. in Washington county, which will build about five miles of road through a manufacturing district with a population of 5,000 people.

ALBANY, N. Y.—The Tuscarora Valley R. R. Co. has been incorporated, with a capital stock of $200,000, to operate a street surface road by electricity from Madison through the towns of Addison, Tuscarora and Jasper to the villages of Woodhull and Jasper. A. E. Gokay, Painted Post; H. H. Clark, Corning, and T. E. Hardine, Addison, are interested.——The New York & Jersey City Terminal Underground Ry. Co. has been incorporated, with a capital stock of $100,000. The proposed road is to commence at or near a point in the Hudson or North River where its line intersects the boundary line of the states of New York and New Jersey and terminate at the intersection of 57th St. and Park Ave. The length of the proposed road is to be about six miles. Henry W. Black, Johnstown, N. J.; James M. Fiske, Newark, N. J.; Wm. M. Clark, 20 Broad St., New York; John W. Thompson, 329 West 83d St., New York, and others are interested.——The state railroad commission has granted a franchise to the New York & Portchester R. R. for permission to construct a four-track electric railway from 132d St. and Willis Ave. along the Long Island Sound shore as far as Portchester. A third-rail system will be used. A two-mile branch line to Classon's Point will also be built. W. C. Gotshall is Pres.

BUFFALO, N. Y.—The state railway commission has granted a petition of the Buffalo, Gardenville & Ebenezer Ry. to issue improvement bonds for the amount of $300,000. This road is constructing a 12-mile extension from Seneca St., Buffalo, to East Aurora.

CORNING, N. Y.—H. A. Clark, Ch. Engr. Tuscarora Valley R. R., advises us that surveys for the company's line from Addison to Woodhull and Jasper have not been started and no contracts have yet been awarded, but will be let very soon. The line will be 18 miles in length, and will be operated by electricity. A. E. Goky is Pres., Painted Post, N. Y. Mr. Clark also states that the Penn Yan & Lake Kenka Electric R. R., to extend between those points, a distance of 12 miles, is in the control of the company and is now ready for contracts.

ITHACA, N. Y.—Sherman Collins, Secy. Auburn & Ithaca Electric R. R., informs us that active operations begin at once on the company's line. Surveyors will be sent out immediately. Isaac P. Hazard is Pres., Poplar Ridge, N. Y.

NEW YORK, N. Y.—The Metropolitan St. Ry. Co. will soon install electric service on the Ninth Ave. line to take the place of the present horse power.

ROCHESTER, N. Y.—Le Grand Brown, Ch. Engr. Rochester Ry., has finished the maps of the proposed extension of the Rochester and Charlotte road to Manitou Beach. The length of the road will be about seven miles. It will be single track, with but few curves. A few bridges will be put up, and a 60-lb. rail will be used. The work is to be completed within from 60 to 90 days, and will cost about $85,000.

SARATOGA SPRINGS, N. Y.—The North River Ry. has been incorporated, with a capital stock of $180,000, by Byron J. Town, Frank G. Howland and John P. Wemple and others to build 18 miles of railway connecting Saratoga Springs and South Glen Falls.

PLAINFIELD, N. J.—H. C. Van Emburgh, Ch. Engr. Elizabeth, Plainfield & Central Jersey Ry., writes that surveys have been completed for a line from Elizabeth to Roselle and Crawford township line, having a length of about three miles. It will be a double track line along North Ave. The company will do its own work, and now has materials on hand. Thos. C. Barr is Pres., Newark.

SHARON, PA.—The Conneaut & Sharon Ry. has made application to the commissioners of Trumbull county for a 50-year franchise through Kinsman, Burg Hill, Hartford and Vienna to Youngstown.

FREDERICK, MD.—A surveying corps is laying out the route of the Baltimore & Frederick Electric Ry. Co. between Baltimore and Carroll counties. A branch line will be built to the State Hospital at Sykesville. Grading will be done at an early date.

WASHINGTON, D. C.—The bill requiring the Anacostia & Potomac Ry. Co. to extend its underground electric line in 11th St. to Holmead Manor has been favorably reported on by the Commissioners.——It is expected that the extension of the underground system of the Metropolitan Railway Co. in Columbia Road and Old 16th to Park St. will be begun shortly.——Work on the extension of the Washington & Maryland line from Berwyn to Laurel, nine miles, has begun. It is expected cars will be running by July 1.

RICHMOND, VA.—The incorporators of the South Richmond Electric Ry. have organized for the purpose of building a road from the eastern end of this city along the Osborne turnpike, down the river to a point near Warwick Park. The capital stock is placed at $10,000. C. P. E. Burgeoyn, W. B. Frayser and R. B. Chaffin are interested.

MONTGOMERY, ALA.—S. G. Averell, of New York, representing the firm of J. G. White & Co., which will construct the street railway of the Capital City Traction Co., has arrived in this city and announced that work on the new road will begin within 10 days.

THIBODAUX, LA.—C. P. Shauer, Pres., New Orleans & Southwestern R. R., Thibodaux, writes that all rights of way for the company's road have been secured and contracts will probably be let between April 25 and May 1. The line will be 71 miles long, running between North Thibodaux and Montegut, and will be operated by electricity.

MEMPHIS, TENN.—Application has been made for a charter for the Shiloh Battlefield & Interurban Electric Ry. Co. of Saltillo, Tenn., for an electric car belt route starting at Jackson, Tenn., and passing through Saltillo, Adamsville, Shiloh National Park to Corinth, Miss. The work of securing the right of way will start at once and the survey about May 1. It is proposed to have the road ready for operation by Sept. 1. The estimated cost of construction is $1,000,000. The company is capitalized at $50,000. W. F. Hinkle, J. H. Craven and J. S. Barham, all of Saltillo, are interested.

NEWPORT, KY.—A. S. Berry, Pres. Newport & Alexandria Traction Co., Newport, writes that the survey for the proposed line has been completed, but the project is not yet fully financed. The line will be 14 miles long, and will run from Dayton to Bellevue, Fort Thomas, Cold Springs and Alexandria. T. S. Weaver, Ludlow, Ky., is Ch. Engr.

MT. GILEAD, O.—H. B. McMillen writes that about one-half of the right of way has been obtained for the line of the Mansfield, Mt. Gilead & Delaware Electric Ry. and that work is being rapidly pushed. The line will be 50 miles long. W. W. Stark is Pres., Mansfield.

SPRINGFIELD, O.—Wm. A. Fry, of the Springfield & Washington C. H. Traction Co., Gotwald Bldg., Springfield, writes that the company is incorporated for $100,000, but not yet organized. Surveys for the line are well under way. The road will be about 40 miles in length, and will touch at between terminals the towns of Clifton, Cedarville, Jamestown, Pleasant View, Jeffersonville, Parrett and Culpeper, drawing on a population averaging about 2,000 people to the mile. Options have been secured on 75% of the private right of way. W. R. Riddell is Ch. Engr., Gotwald Bldg., Springfield.

ELKHART, IND.—Local papers state that plans have been consummated for the construction of an interurban electric road by Elkhart capitalists for an electric line about 20 miles long connecting Elkhart with neighboring districts. H. E. Bucklen and A. R. Beardsley are interested.

WABASH, IND.—The Wabash Traction Co., with headquarters in this city, has completed the purchase of the city lines of Logansport, Ind. The company now has 18 miles of line operating between Wabash and Peru, and will at once extend its interurban line to Logansport, 14 miles.

BAY CITY, MICH.—The Saginaw Suburban Ry. Co. will start work at once on the proposed line between Bay City and Flint, a distance of 48 miles. President Silsby has provided for the capital.

GRAND RAPIDS, MICH.—Articles of incorporation have been filed by the Manistique, Marquette & Northern, with a capital stock of $2,000,000. The company will establish a ferry line between Northport and Manistique. The plans are in preparation for the construction of the proposed road.

BRODHEAD, WIS.—S. Stearns and P. Baldwin, of Rockford, Ill., are looking over the route of the proposed interurban electric railway between Rockford, Ill., and Madison, Wis.

LA CROSSE, WIS.—Geo. Bradish, Ch. Engr. La Crosse & Eastern Ry., La Crosse, informs us that preliminary surveys for the company's road will be started within two weeks. The line will be operated by electricity and will be 50 miles in length.

KANSAS CITY, MO.—Homer Reed, Pres. Kansas City, Forest Hill & Swope Park R. R., Kansas City, informs us that surveys are now being made for the 4½ miles of electric road to be built by the company, and contracts will be let immediately.

PROVO, UTAH.—The county commissioners have been petitioned for a franchise for a system of electric roads that will connect all the towns of Utah county. About $300,000 will be expended for the purpose. Reed Smoot, Jesse Knight and Samuel Thurman are interested.

TORONTO, ONT.—John Carson, Kingston, and Geo. E. Smith and A. D. Dowd, Boston, Mass., are inspecting the proposed route of the Toronto & Cornwall Electric Ry.

LIGHT, HEAT AND POWER PLANTS.

OAKLAND, ME.—The Dunn Edge Tool Co. proposes to build an electric power plant at the cascade near here, according to reports.

KITTERY POINT, N. H.—The P. K. & Y. St. Ry., it is stated, proposes to improve its power house, and is said to have placed some of the contracts.

BRATTLEBORO, VT.—Bids are asked by the Brattleboro Gas & Electric Light Co. until April 28 for constructing a dam and electric power station at West Dummerston, Vt. C. F. Thompson, Treas.

GREENFIELD, MASS.—A. C. Rice, State Mutual Bldg., Worcester, Mass., is preparing plans for a power plant on the Deerfield River for the Greenfield Electric Light & Power Co. to develop about 1,500 HP. A concrete masonry dam 400 ft. long and 50 ft. high will be built. The power will be transmitted a distance of five miles. Estimated cost, $100,000.

PITTSFIELD, MASS.—It is stated that Lockwood, Green & Co., Archs. and Engrs., 93 Federal St., Boston, have submitted a proposition to local parties for building and operating an electric plant of about 20,000 HP. capacity.

FULTON, N. Y.—L. W. Emsrick, Mgr., writes us that bids will be wanted in May for a plant for the Fulton Light, Heat & Power Co., to consist of two water wheels, generators, 135 arc and 5,500 incandescent lights.

HOMER, N. Y.—C. O. Newton, Pres., writes us that the town may probably decide to put in a plant later.

HOOSICK FALLS, N. Y.—The Hoosick Falls Electric Co. proposes to make a number of improvements to its plant, in addition to its present changes.

ROCHESTER, N. Y.—The Rochester Gas & Electric Co. proposes to build an electric light plant to cost about $30,000. Local papers state that this company, the Citizens' Light & Power Co. and the Municipal Gas Co. have been consolidated.

TREADWELL, N. Y.—Daniel Munn is reported as securing subscriptions to electric lights.

ATLANTIC CITY, N. J.—I. D. Smead, Cincinnati, O., and this city, is preparing plans for a hot water heating plant for Louis Kuehnle and will soon want bids.

BORDENTOWN, N. J.—The Camden & Trenton Ry. Co. is preparing plans for a power house to cost $25,000.

PHILLIPSBURG, N. J.—The Phillipsburg Heat, Light & Power Co. proposes to extend its mains where there are none at present. Siddon Flick is Pres.

PHILADELPHIA, PA.—John R. Wiggins & Co. will begin at once on the power plant for the Philadelphia Electric Co. at 26th and Christian Sts., to cost $400,000. The plans, by John T. Windrim, provide for a 4-sty. and basement structure of fireproof structural steel construction, with a frontage of 166.1 ft. and a depth of 163.4 ft., extending to the Schuylkill River.

PITTSTON, PA.—The Citizens' Electric Illuminating Co., K. J. Ross, Pres., wishes bids for 300-HP. gas engine, direct-connected, and if one is secured a fuel gas plant will be installed.

WILKESBARRE, PA.—Jos. Heindler, Weitzenkon Bldg., has asked for a franchise for a power plant. If granted he will want a 50-HP. engine, direct-connected, 500 incandescent lights, feed water heater, etc.

YORK, PA.—Local papers state that Baltimore parties have bought the old Susquehanna Canal and propose to use it in developing water power. The Susquehanna & Tidewater Canal Co. will be reorganized. Plants will be built at McCall's Ferry and Cowing. John P. Harlow is Pres.; M. H. Houseman is Secy., Baltimore, Md.

ANNAPOLIS, MD.—Baldwin & Pennington, 44 South St., Baltimore, are preparing plans for an electric plant to cost $150,000 for the state of Maryland.

LYNCHBURG, VA.—J. J. Kennedy, of New York, is reported as preparing plans for the proposed new plant for the Lynchburg Water Power Co., recently incorporated to build a plant at Rensens, to cost about $200,000.

KEYSTONE, W. VA.—The council has voted to issue $25,000 in bonds for an electric plant, waterworks and paving.

MORGANTOWN, W. VA.—The Morgantown Electric Light & Power Co. has accepted a franchise and will at once improve its plant.

PRUNTYTOWN, W. VA.—The Pruntytown Rock School proposes to build an electric plant to cost $5,000, according to reports.

CHARLESTON, S. C.—At a recent meeting of the council the committee on lighting submitted the following report for awarding contracts, which was adopted: Arc lights of 1,200-c.p., to the Consolidated Co.; incandescent lights of 1,200-c.p., 100 Kitson of 32-c.p. and 40 Edison lights of 32-c.p., to the American Lighting Co. The contracts are for a term of two years.

SHELBY, N. C.—A. W. McMurray and H. Miller have purchased the plant of the Shelby Light & Power Co., and will at once make improvements.

BRUNSWICK, GA.—Chas. J. O'Farrell, Jr., of this city, has been granted a franchise for an electric plant.

DALTON, GA.—This city has voted to issue $[illegible] in bonds for an electric plant.

BIRMINGHAM, ALA.—The board of revenue [illegible] to build its own electric plant and water-works, according to reports.

DECATUR, ALA.—Reports state that J. T. C[illegible] of Chattanooga, Tenn., has been granted a franchise for an electric plant.

MERIDIAN, MISS.—The Meridian Light & Ry. Co. has increased its capital from $225,000 to $450,000 for the purpose of making improvements to its plants. [illegible] H. Ambrecht, Vice-Pres.

ABBEVILLE, LA.—A. G. Nauck, who will build a plant here, is reported as forming a company to do the work and operate the plant, to cost $8,000.

NEW ORLEANS, LA.—The N. O. & Carrollton R. R. Co. submitted the lowest bid April 7 at $2,648,489 for constructing and furnishing this city with an electric light plant on the 10-year plan. Herbert A. Bullard, of Cincinnati, O., submitted the only other bid, at $2,7[illegible]. Mr. Bullard submitted the only bid at $1,449,826 for a plant with cypress poles in the overhead district, to be turned over to the city at once upon completion, or $1,367,096 if pine poles are used. The N. O. & C. R. R. Co.'s bid was about as follows: 301 lamps in underground district, $114.80 a lamp a year; 2,299 lamps in overhead district, $94.95 a lamp a year; 150,000-K.W. service [illegible] per K-W. Bullard's bid was underground district $125, overhead, $97.25; K-W. service, 6 cts. W. J. Harder is Ch. Engr.

KNOXVILLE, TENN.—W. F. & G. W. Stewart have asked for a franchise for a natural gas plant, and the Cumberland Telephone Co. a franchise for underground lines. J. T. McTeer, Mayor.

MONTEAGLE, TENN.—This place, it is stated, will soon have electric lights.

RUSSELLVILLE, KY.—Reports state that the council has voted to appropriate $6,000 in bonds for improving the works.

MANSFIELD, O.—Chas. W. Upson, Fred. S. Ozias and ex-Mayor Huntington Brown have been granted a 25-year franchise for a central hot water heating plant.

CAYUGA, IND.—We are informed that Chas. Cottingham, Danville, Ill., has been engaged to prepare plans, etc., for an electric plant and water-works. Bids for the construction will be received about May 1.

TERRE HAUTE, IND.—The Terre Haute Pipe Line Service Co. has been granted an extension of one year to the time when it must have its plant completed.

VINCENNES, IND.—Mayor Green has vetoed an ordinance granting a 30-year franchise for an electric light and heating plant to Jos. L. Bayard, Pres. First National Bank, Chicago, Ill.

ALBION, MICH.—Jas. Shanley, Mayor, writes that this city has defeated the proposition to issue bonds for a municipal plant. The council will probably advertise for bids for lighting the streets with about 90 1,200-c. p. arc lights, which may induce parties to install another plant, as Mr. Shanley says the present one is unsatisfactory.

EAST GRAND RAPIDS, MICH.—Reports state that plans are being considered for a gas plant and sewers. Address Trustee Swetland, P. O., Grand Rapids.

KALAMAZOO, MICH.—C. H. Frisbie, of the Kalamazoo Valley Electric Co., of Jackson, Mich., and W. H. Patterson, of Grand Rapids, Mich., are reported as considering the matter of building a power dam and plant near here.

CHICAGO, ILL.—This city on April 1 gave a vote of 150,000 in favor of the municipal ownership of the gas and electric plants and of the street railways, while only 25,000 voted against such ownership.

EDWARDSVILLE, ILL.—The council has rejected the bids recently received for an electric lighting contract, and Mayor Bosen has recommended municipal ownership.

MOLINE, ILL.—Deere & Co. are reported to have begun the construction of the proposed power plant, to cost about $100,000.

URBANA, ILL.—Reports state that the Urbana Light, Heat & Power Co. proposes to build a gas plant.

WYOMING, ILL.—Reports state that the electric plant here owned by E. B. Hillman was partly destroyed by fire last week, causing a loss of about $20,000.

MILWAUKEE, WIS.—Local papers state that a company is being organized to build an electric plant to cost $50,000, to serve the south side. Maj. Chas. H. Anson is interested.

EARLY, IA.—E. E. Rowe has been granted a franchise for a gas plant.

FAYETTE, IA.—This place has failed to vote to change its lighting system to incandescent from arc lights. G. A. Oliver is Mayor.

MALCOM, IA.—Reports state that an electric plant is to be built here.

DULUTH, MINN.—The Highland Canal & Power Co. has asked for a franchise for furnishing power and commercial lighting.

FERGUS FALLS, MINN.—This place has voted against issuing $25,000 in bonds for a new power dam, etc. M. T. McMahon, Mayor.

RUSHFORD, MINN.—This place has voted to issue $7,000 in bonds for an electric plant.

ST. PAUL, MINN.—The bids received by A. H. Stern, Arch., for an electric plant at the City Hospital, to cost $29,000, have been rejected and new ones will soon be asked by the county board of control.——Friend B. Brace has been granted a franchise for an electric plant for St. Anthony Park.

SAUK RAPIDS, MINN.—A. G. Whitney, of St. Cloud, Minn., has submitted a proposition to this place to build an 18-ft. head dam to furnish 9,000 HP., and a power plant to cost about $175,000.

TOPEKA, KAN.—The Edison Electrical Co. proposes to erect an addition to its power plant, to be 120 × 50 ft., and to include two new engines, etc., to cost about $110,000. C. R. Maunsel, Supt.

BEATRICE, NEB.—P. M. Wickstrum, of Clay Center, Kan., has been granted a 20-year franchise for an electric light and heating plant.

FARGO, N. DAK.—The Fargo Gas & Electric Co. has purchased the property of the Fargo Edison Co.

ST. LOUIS, MO.—Estimates are being prepared for a municipal electric plant. Hiram Phillips is Pres. Bd. Pub. Impts.

BEEVILLE, TEX.—Chas. Dowe, who is reported to have purchased the electric plant and water-works, proposes to make improvements at once.

NORTH GALVESTON, TEX.—It is proposed to build an electric plant and electric railway. Address Jas. A. Lawrence, Pres. North Galveston Improvement Co.

SAN ANTONIO, TEX.—This city will vote May 10 on the question of granting a franchise for an electric plant and a gas plant to the highest bidders. Address Mayor Hicks.

ALAMOSA, COLO.—Reports state that Col. J. B. Frank, of Denver, who controls the electric light plant and owning several blocks in Alamosa, will replace the old electric plant by a new one of double the capacity of the one in operation. The projected plant will be of sufficient power to furnish 1,500 16-c. p. and 25 arc lights.

FORT COLLINS, COLO.—The plant and franchises of the Fort Collins Electric Co. have been sold to Bonbright & Co., C. H. White and Chas. Page for about $35,000, according to reports.

PUEBLO, COLO.—The council has asked for bids for lighting this place for a term of years from next September, when the present contract expires.

SEATTLE, WASH.—The Citizens' Light & Power Co. is reported to have secured a site for a new plant. There will be two gas holders, one 50 ft. in diameter and the other 65 ft.——City Engineer Thomson is reported as considering plans for the proposed electric power plant at Cedar Lake Falls, to cost about $590,000. Councilman Murphy is Chn. Com.

WHATCOM, WASH.—P. B. Cornwall, D. O. Mills and Alouiza Hayward, who were recently granted a franchise for an electric plant, will soon begin making surveys under the direction of J. J. Donovan and J. J. Cryderman.

BAKER CITY, ORE.—A. B. Frame, of Portland, Ore., will begin at once on the construction of his proposed electric power plant on Eagle Creek.

LAS VEGAS, N. MEX.—The Sprague Electric Co. has been awarded the contract for electric equipment for the power and light plant to be built by the Las Vegas Heat, Light & Power Co., who proposes to construct about 21 miles of electric road.

VISALIA, CAL.—The Mt. Whitney Power Co. has decided to build a new power plant above Lemon Cove, according to reports.

GRAVENHURST, ONT.—This place has voted to purchase the electric plant.

NEW COMPANIES.—Clinton Electric Light Co., Anderson county, Tenn.; $4,000; T. R. Price, H. S. Migner.

Atlanta Water & Electric Power Co., Atlanta, Ga.; $500,000; S. M. Smith, York, Pa.; Geo. W. Adair, Atlanta, Ga.

Holston Water & Electric Power Co., Bristol, Tenn.; $25,000; James Gannon, J. S. Ashworth.

Dillion Electric Light & Power Co., Dillion, O.; $100,000.

Guanajuato Power & Electric Co., Colorado Springs, Colo.; $3,000,000; L. E. Curtis, Henry Hine.

Northern California Power Co., Redding, Cal.; $2,000,000; H. Noble.

Gilroy Gaslight & Fuel Co., Gilroy, Cal.; $17,500; A. Robinson, S. T. Moore.

Sweeten & Purvis Electric Light, Heat & Power Co., Glassboro, N. J.; $100,000.

Warrior River Light & Power Co., Birmingham, Ala.; $1,000,000; Robert R. Zell, J. L. Burns, A. L. Ezell.

Peoples' Electric Light Co., Baltimore, Md.; $100,000; R. F. Nolley, H. C. Evatt, H. L. Rodgers.

Central Light & Power Co., Ensley, Ala.; $50,000; R. F. Wells, Henry Broda.

Greenwood Lighting Co., Greenwood, Ind.; $10,000; Samuel V. Perrot, Albert G. Perrot, Indianapolis, Ind.

Irondale Electric Light, Heat & Power Co., Bloomsburg, Pa.; W. S. Moyer, J. J. Brown, Wm. M. Reber.

Cincinnati, Newport & Covington Light & Traction Co., Cincinnati, O.; E. T. McLaughlin, Jersey City; H. W. Clark, Wall St., New York.

Boswell Electric Light & Water-Works Co., Boswell, Ind.; $25,000; E. V. Williamson, Philip J. Shaw.

BRIDGES.

MILTON, VT.—This town has voted to erect a steel bridge over the Lamoille River, at a cost of about $14,000.

WILLIMANTIC, CONN.—At a recent town meeting a committee was appointed to procure surveys, plans and estimates of a bridge over the Willimantic River. Geo. E. Stiles is a member of the committee.

GOSHEN, N. Y.—The contract for building the Decker bridge in this place has been let to the United Construction Co., at $9,275, and the contract for the Cheechunk bridge has been let to the Canton Bridge Co., at $2,748.

GOSHEN, N. Y.—Bids are asked until April 28 for the substructures of two iron bridges over the Wallkill, as stated in our advertising columns. V. K. Mills, Engr; I. C. Baldwin, Town Clk.

POUNDRIDGE, N. Y.—An appropriation of $2,000 has been granted this town toward the construction of an iron bridge over Mill River.

ROCHESTER, N. Y.—The contract for a lift bridge over the Erie Canal at Plymouth Ave, has been let to the Oswego Bridge Co., Oswego, N. Y., at $43,300.

SYRACUSE, N. Y.—The council has approved of the Cadin bill, making an appropriation of $27,500 by the state for the construction of a $65,000 bridge to replace the old hoist bridge over the Oswego Canal at North Salina St.

BUTTZVILLE, N. J.—W. A. Henderson, Chn., Oxford, N. J., writes us that bids will be received April 17 for the superstructure of a one-span, 18 ft. wide, high iron truss bridge, of a capacity of 100 lbs per sq. ft. The foundation is to be of stone or concrete and the contract for the substructure will be let about Aug. 9.

BELVIDERE, N. J.—The county commissioners contemplate the erection over Pequest Creek of a 5-pier iron-girder bridge. Bridge to be 70 ft. long and 12 ft. wide, with masonry piers and plank floor. Wm. A. Henderson, Chn., Oxford, N. J.

ALLENTOWN, PA.—Viewers have decided to recommend a bridge that will be elevated above the tracks of the N. J. C. R. R. to take the place of the structure across the Lehigh River that was recently destroyed by the flood.

HOBOKEN, N. J.—L. Bush, Prin. Asst. Engr., writes us that no plans have been made for removing the D., L. & W. R. R. bridge at Changewater, N. J.

NEW BRUNSWICK, N. J.—The freeholders have ordered plans and specifications for a bridge over the Raritan River connecting South and Perth Amboy.

ALLENTOWN, PA.—A charter has been granted to the Allentown & East Allentown Bridge Co., capitalized at $15,000. G. O. Albright, S. S. Keck, F. H. Hersh.

BOWMANSTOWN, PA.—It is said that the state board of viewers have reported in favor of a steel highway bridge for this place.

HARRISBURG, PA.—It is reported that the state contemplates the erection of five bridges in Wayne county, as follows: Wayne bridge, Honesdale, iron, 1 span, 42 ft. × 76 ft.; Mangs bridge, Fortuna, iron, 1 span, 16 ft. × 60 ft.; Leo's bridge, between Sterling and Salem, 2 stone arches, each 20 ft., entire structure, with approaches, 150 ft. × 14 ft.; Forks bridge, iron, 1 span, 12 ft. × 75 ft.; Equinuk bridge, 2 stone arches and 1 iron span, 16 ft. × 55 ft. T. L. Eyre, Harrisburg, is State Superintendent of Public Buildings and Grounds.

HONESDALE, PA.—According to reports, the Wayne county commissioners contemplate the erection of six bridges, as below: Two in Milanville, 14 ft. × 30 ft.; three in Buckingham, 14 ft. × 30 ft.; one in Texas, 16 ft. × 55 ft.

JOHNSTOWN, PA.—The contract for the iron work for the bridge over the Stony Creek at this place has been let to George Harshberger, at $4,475.

OLD FORGE, PA.—Viewers have reported favorably for a one-span 91-ft. steel state bridge at this place. T. L. Eyre, Supt. Pub. Bldgs., Harrisburg, Pa.

READING, PA.—Viewers have been appointed to report on the rebuilding of the partially destroyed bridge over the Schuylkill at Cross Keys. The cost of the work will be about $8,500, and the matter will come up in the Dauphin county court May 1. Engineer Mason D. Pratt, Steelton, is one of the viewers.

RICHMOND, PA.—The citizens have petitioned for a county bridge and viewers have been appointed.

TOWANDA, PA.—The state has been asked to replace the county bridges washed away at Wyalusing and East Troy with one-span steel structures, 16 ft. × 150 ft. and 16 ft. × 145 ft., respectively.

ANNAPOLIS, MD.—Bids are asked until April 22 for building an iron bridge over Patuxtent River between Anne Arundel and Prince George's counties. Chas. Himelheber, Clk. County Comrs. Office.

RICHMOND, VA.—City Engineer Cutshaw has approved of the plans for the Seaboard Air Line bridge which is to connect Lombardy St. with the Union University grounds.

ATLANTA, GA.—R. M. Clayton, Cy. Engr., writes us that the following bids were received April 7 for a steel viaduct: Power & Craft., Atlanta, Ga., $105,560; Niles & Braddt, Atlanta, Ga., $108,000; Gude & Walker, Atlanta, Ga., $99,000; Grant Wilkins, Atlanta, Ga., $95,000; Leonard & Young, Columbus, Ga., $99,734; Midland Bridge Co., Kansas City, $107,897; Penn Bridge Co., Beaver Falls, Pa., $122,000.

MADISONVILLE, TENN.—The county court has authorized the construction of three steel bridges across the Tellico River.

PULASKI, TENN.—The sum of $30,000 has been appropriated by the county for repairing and replacing bridges.

SPARTA, TENN.—The county court has decided to rebuild all bridges washed away by the recent floods.

PAINESVILLE, O.—The question of a county bridge over the Chagrin River is being agitated.

WASHINGTON COURT HOUSE, O.—Bids are asked until April 22 for a 90-ft. span steel bridge in Jefferson. John Craig, County Auditor.

INDIANAPOLIS, IND.—Bids are asked by the Marion county commissioners until May 6 for building a bridge over White River at West Washington St. Local press reports state that bids on five different plans are asked for. The plans are for stone, Melan arch, steel girder, steel concrete, and the Hennebeque bridge.

INDIANAPOLIS, IND.—Bids are asked until May 1 for constructing four county bridges in Pikes. John McGregor, Chn. County Comrs.

LAFAYETTE, IND.—Bids are asked until May 3 for building four county bridges and various steel culverts. Geo. A. Jamison, County Audr.

SOUTH BEND, IND.—Bids are asked until April 29 for an 80-ft. span plate girder bridge and a concrete steel arch. J. M. Brown, County Audr.

TERRE HAUTE, IND.—James Soules, Auditor Vigo County, writes us that no steps have been taken toward building the new Wabash River bridge.——The county commissioners will receive bids on May 7 for the construction of 13 new bridges, as follows: Sterling and Haley bridges, Honey Creek township; Grant bridge, Nevins; Bowen bridge, Prairie Creek; Salt Creek bridge, Fayette; 21st St. and Fruit Ridge bridges, Harrison; Davis and Hayworth bridges, Linton; Bemeyer bridge, Riley; Rush bridge, Pierson; Soules bridge, Lost Creek. James Soules, County Audr.

BAY CITY, MICH.—Bids are asked until April 26 for building three county bridges of 100-ft., 50-ft. and 32-ft. spans respectively. L. Daniels, Clk.

BLOOMINGTON, ILL.—The specifications for an iron arch and stone bridge on Empire St. have been referred to the city engineer for an estimated cost of the structure.

CHERRY VALLEY, ILL.—It is reported that the county commissioners are planning to span Ernest's Ford with a $5,000 steel bridge.

GEORGETOWN, ILL.—This place has voted in favor of constructing steel and iron bridges at Jenkins Ford and the Rocky Ford crossings.

THEBES, ILL.—The contract for the earthen embankments and approaches of the new bridge to be built across the Mississippi at this place has been let to McArthur Bros., Chicago. The bridge is being built jointly by the Chicago & Eastern Illinois, Illinois Central, Cotton Belt, and Gould lines. The total cost of the structure will be about $2,500,000.

ASKEATON, WIS.—This place has voted to build an iron bridge this summer.

BARABOO, WIS.—A local press report states that the C. & N. W. R. R. is to construct a new bridge across the Wisconsin River at Merrimac during the next few months.

SUMNER, WIS.—It is reported that this town is to erect an iron bridge.

BARRY, MINN.—This town has voted $12,000 for building a road and bridge across the Kettle River. S. W. Anderson, Clk., P. O. Hinckley, Minn.

CASS LAKE, MINN.—A special election has been called to vote on the issue of $30,000 of bonds for the bridge and road fund and $50,000 for the court house fund.

SIOUX CITY, IA.—J. M. Lewis, Cy. Engr., writes us in regard to the proposed viaduct that it is hardly likely that plans will be gotten out this year, as the matter will first have to be taken up with the railroad companies.

CROOKSTON, MINN.—Geo. A. Ralph, Cy. Engr., writes us that bids will be received May 13 for the construction of a bridge over Red Lake River at Main St. The bridge is to be of steel, three spans, main span being 200 ft. and others 40 ft. each, of width of 20 ft. and a capacity of 100 lbs. per sq. ft. The foundation is to be of the tubular pier kind and the total cost is $8,000. Bids may be submitted on plans furnished by bidders. A profile of the river crossing will be sent upon application.

MINNEAPOLIS, MINN.—Bids are asked until April 25 for furnishing the material for a bridge on Third Ave. L. A. Lydiard, Cy. Clk.

MADISON, NEB.—Bids are asked until April 22 for all pile and iron bridges required by Madison county for a term of one year. Emil Winter, County Clk.

MILES CITY, MONT.—Bids will be received by the Custer county commissioners ,according to local press reports, until April 23 for the construction of a 110-ft. combination bridge across the Little Missouri. The bridge is not to cost more than $2,500.

LOS ANGELES, CAL.—It is reported that the Southern Pacific R. R. will build a double-track steel bridge across the Los Angeles River in connection with the erection of their new shops.

QUINCY, CAL.—Bids are asked until May 5 for the construction of a steel bridge over Feather River. H. C. Flourhoy, Clk.

OGDEN, UTAH.—The contract for a bridge on tube substructure over the Weber River between West Weber and Plain City has been let to A. M. Blodgett, Contr., Kansas City, Mo., for $4,800.

PETERBOROUGH, ONT.—Bids are asked until April 18 for the construction of a combined concrete dam and railway bridge. Chas. N. Keefer, C. E., Metropolitan Bldg., Ottawa.

WINNIPEG, MAN.—It is reported that a $25,000 bridge in this city was recently wrecked by high water.

BUILDINGS.

BAR HARBOR, ME.—Bids are asked until April 19 for the erection of a six-room grammar school. Fred. L. Savage, opposite postoffice.

WATERVILLE, ME.—The sum of $40,000 will be needed for the completion of the city hall, to be dedicated in June.

NEWPORT, VT.—The bids received by James K. Taylor, Supervising Arch., Washington, D. C., on March 24 for the erection of a custom, court house and postoffice buildings in this place were in excess to the appropriation and were rejected. Revised plans are now in progress. The building will be four stories, 56 × 74 ft., of brick and stone and fireproof construction, and is estimated to cost $80,000. The lowest bid was $110,000.

BEVERLY, MASS.—The council has authorized the issuance of $60,000 for improvements to the city hall building.

BOSTON, MASS.—Plans are being prepared by the J. D. Allen Co., Archs., Betz Bldg., Philadelphia, Pa., for a 1 and 3-story fireproof building for the Olympic Gardens Co., to cost $350,000. The building will be 80 × 230 ft., of brick and iron, and will contain restaurant, billiard rooms, bowling alleys, ball room and ice skating rink. Electric and steam heating and refrigerating and ice-making plants will be installed. Dr. Heeber Bishop, of Boston, is interested.——A new club-house will be built at Boylston and Hereford Sts., Back Bay, for devotees of tennis, squash and racket. Plans for a 3-story building have been completed by Parker & Thomas, Archs.

DALTON, MASS.—A building for the museum of natural history and art, costing $40,000, will be given by Tonas Crane, of this city, to Berkshire county.

WILLIAMSTOWN, MASS.—A new chapel will be presented to Williams College by Mrs. F. F. Thompson as a memorial to her husband.

WORCESTER, MASS.—The grade crossing commission has received plans for the new union depot to be built in this place in connection with the elimination of grade crossings of the Boston & Albany and N. Y., N. H. & H. roads. The building will be 280 × 120 ft.

NEW HAVEN, CONN.—Ground will be broken at once for the new building to be known as Lampson Lyceum, to be a brick and stone structure, costing about $150,000.

ALBANY, N. Y.—The Fort Orange Realty Co. has been incorporated, with a capital stock of $125,000, for the purpose of erecting a 12-story building on the present site of the Western Union Building. The new structure will be completed by May 1, 1903. John D. Parsons, Geo. P. Hilton and Randall J. Le Boeuf are interested.

COOPERSTOWN, N. Y.—The Delaware & Hudson Co. will build a 6-story addition to its building on North Pearl St., to be 43 × 60 ft., and to cost $60,000.

MOUNT VERNON, N. Y.—Andrew Carnegie has increased his gift for a new library at this place from $35,000 to $50,000.

NEW YORK, N. Y.—Plans have been filed by Schickel & Ditmar, Archs., 111 Fifth Ave., for a 12-sty brick office building, 105 × 102 ft., at Broadway and 28th St. for C. H. Johnson, Stutgart, Germany, to cost $500,000; by M. Bernstein, 111 Broadway, for two 5-sty. brick tenements at 237-231 East 115th St., each 50 × 89 ft., for H. Wolfenson, 237 Division St., to cost $40,000 each; by Heins & La Farge, Archs., 7 Beekman St., for a 5-sty. brick church, 58 × 52 ft., at 804 Broadway for Grace Church, to cost $125,000; by C. L. W. Eidlitz, Arch., 1123 Broadway, for a 3-sty. office building, 66 × 88 ft., at 126-30 Orchard St., for the N. Y. Telephone Co., to cost $125,000; by A. C. Badt, Arch., 1 Union Square, for a 3-sty. brick factory, 144 × 160 ft., at Avenue A and 53d St., for A. Kern, 157 Cedar St., to cost $60,000; by Sass & Smallheiser, Archs., 29 Park Row, for a 7-sty. brick lofts building, 44 × 66 ft., at 91-93 Hester St., for S. Sass, 60 St. Nicholas Ave., to cost $40,000, and also for a 6-sty. tenement for I. Mishkind, 774 East 173d St., at 206-08 East 17th St., to be 44 × 79 ft., and cost $65,000, and a 6-sty. brick tenement, 50 × 101 ft., at 60-62 East 119th St., for I. R. Horowitz, 394 Grand St., to cost $50,000; by A. E. Badt, 1 Union Square, for a 6-sty. brick tenement in West 51st St., 60 × 87 ft., for Rosenberg & Feinberg, 129 Vernon Ave., to cost $60,000; by the Church of the Incarnation, for a 1-sty. chapel at 238-40 East 31st St., to cost $80,000.

NORTH TONAWANDA, N. Y.—The New York Central R. R. contemplates erecting a new depot in this place.

SYRACUSE, N. Y.—The main building, drill hall and chapel of St. John's Military School, at Manline, were destroyed by fire on April 8, causing a loss estimated at $96,000. The school will be rebuilt on the same grounds, work commencing as early as possible. Col. Wm. Verbeck, Mgr., states that the new buildings will be arranged in the form of a quadrangle and will be two stys. high, costing about $100,000.

ATLANTIC CITY, N. J.—Seymour & Paul A. Davis, 3d, 907 Walnut St., Philadelphia, are preparing plans for an 8-sty. brick fireproof hotel for J. G. Jason Waters, of this city, at Illinois Ave. and the Beach, to cost about $1,000,000. The new structure will occupy the sites of the "Tarlton," recently burned, and the present "Windsor" hotels, the latter to be demolished. Bids will be called for this summer.——Plans are being prepared by Harsey J. Shumway, Arch., Law Bldg., city, for a 6-sty, 170 × 300 ft. brick and iron fireproof hotel at Kentucky Ave. and the Beach, to cost $300,000, for George and James Berr, 921 Pacific Ave. It will contain steam heating, electric light, refrigerating and steam power plants and four electric elevators.——H. A. Stout, Arch., Law Bldg., has plans under way for a fireproof hotel, 275 ft. square, in this city, costing $500,000. Electric lighting and refrigerating plants and steam heating and electric elevators will be installed.——Katherine Ellis, Arlington Hotel, is having plans prepared for a 5-sty. brick and iron hotel at New York Ave. and the Beach, fireproof, costing $75,000. Electric elevators will be used. Wm. H. Hewitt, Arch., 2316 Arctic Ave., city, is now taking bids.——Wm. L. Price, Arch., 731 Walnut St., Philadelphia, has plans under way for a 6-sty. hotel at Kentucky Ave. and the Beach, to be of brick and iron and fireproof construction, costing about $500,000. Josiah White & Bro., Hotel Marlborough, will own the building. Electric passenger elevators, steam heating and ventilating and telephone systems, refrigerating and electric plants will be installed.——A. Whitehead, 1624 Latimer St., Philadelphia, has received the contract for erecting a 4-sty. hotel at New York Ave., near the beach, for R. H. Kilpatrick, city, to cost $70,000.——C. D. Thompson, 1806 Arctic Ave., has the contract for rebuilding the 3 and 5-sty. "Bryn Mawr" hotel at New York Ave. and the Beach, to cost $80,000., Owner, J. T. S. Kepper, Raleigh Ave., Chelsea.

CAMDEN, N. J.—Thomas Stephens, Arch., Masonic Temple, has plans in progress for a 6-story brick furniture warehouse at the foot of Market St., to cost $50,000. J. B. Van Sciser & Co. will erect the building.——The Mellor & Rittenhouse Co. will erect a 1-story brick warehouse, 100 × 165 ft., in this place, after plans by Clarke & Hubbard, Engrs, Crozer Bldg.

PORT NORRIS, N. J.—Bids are asked until April 26 for erecting a 3-story building, 32 × 72 ft., for the Port Norris Lodge, No. 76 J. S. Turner, Secy.

EASTON, PA.—A contract has been awarded to Geo. W. Beard & Co., 336 Court St., Reading, for erecting a 6-story bank and office building in Center Square for the National Bank of Easton, to cost about $100,000.

EAST STROUDSBURG, PA.—Bids are asked until April 21 for constructing a 3-story brick school, 120 × 72 ft. B. F. Morey, Chn. Bldg. Com.

JOHNSTOWN, PA.—Application will soon be made by the Ryan-Correll Co., with a capital of $100,000, for a charter to conduct a wholesale grocery. A new building will be erected on Jackson St., for which plans are now being prepared by Architect Myton. It will be a 4-sty. building, 122 × 48 ft., of fireproof construction, equipped with elevators. John C. Ryan is Pres.

LEBANON, PA.—Plans for a new home for the Y. M. C. A. are being discussed. Between $40,000 and $50,000 will be needed for the building. C. E. Rauch is Pres.

MARYSVILLE, PA.—A new passenger station will be erected here by the Pennsylvania R. R.

PHILADELPHIA, PA.—Plans are being prepared for a 9-sty. fireproof office building, 61 × 150 ft., for Perry & Co., 1520 Chestnut St., at 16th and Chestnut Sts., to cost $50,000. Wilson Bros. & Co., Archs., Drexel Bldg.——E. V. Seeler, Arch., Real Estate Trust Bldg., has plans under way for a 6-sty building, 42 × 80 ft., at Juniper and Market Sts., to cost $60,000. It will be of brick and iron and semi-fireproof construction. The Harrison Estate is the owner.——Frank Miles Day & Bro., Archs., 925 Chestnut St., are preparing plans for a 2-sty. fireproof gymnasium building at 34th and Spruce Sts., to cost $500,000. The University of Pennsylvania will erect the building. C. C. Harrison is Provost, 400 Chestnut St.——Bids are being taken by E. F. Bertolette, Arch., Heed Bldg., on all lines of material to be used in connection with the construction of an apartment house for Frederick A. Poth at 31st and Jefferson Sts., to cost $750,000. It will be an 11-sty. fireproof structure, 100 × 190 ft., and will be equipped with electric elevators, steam heating, electric lighting and refrigerating plants.——The University of Pennsylvania will erect a veterinary department building at 39th St. and Woodland Ave., to be three stys., fireproof, and to cost $350,000. Plans are now being prepared by Cope & Slewardson, Archs., 320 Walnut St., who will take bids.——Plans have been filed by the Southwark Electric Light & Power Co. for a new $300,000 power house at 26th and Christian Sts., to be five stys., 166 × 163 ft.——Milligan & Webber, Archs., 520 Walnut St., have plans for a 6-sty. fireproof apartment house, 270 × 280 ft., at Grant Ave. and Kennett Place, Pittsburg, for the United Real Estate Construction Co., to cost about $500,000.——W. L. Price, Arch., 731 Walnut St., has completed plans for the new residence for George S. Graham at Bryn Mawr, to be two stys., 50 × 156 ft., and to cost $50,000.——J. T. Jackson & Co., real estate agents, contemplate erecting a 6-sty. building at 827 Walnut St.——Jacob Naschold, Arch., 68 Manhattan Bldg., will soon send out plans for a $100,000 residence in this city.——Leach & Co., whose storage warehouse at Columbia Ave. and Sydenham was destroyed by fire several months ago, have commissioned Stewart Bros., Archs., to draw plans for the new building, to be 80 × 150 ft., of slow-burning mill construction.

PITTSBURG, PA.—Albert E. Westover, Arch., Watkins Bldg., Philadelphia, has preliminary plans in progress for a 2-story fireproof theatre in this city for B. F. Keith, to cost $250,000.

PITTSBURG, PA.—The plans prepared by Rutan & Russell, Archs., First National Bank Bldg., for the new clubhouse for the Twentieth Century Club, at Butler and 35th Sts., at a cost of $50,000, have been accepted. Mrs. D. C. Clapp is Pres. of the society.——Plans have been prepared by Chas. Rouser, Arch., for an opera house building, four stys., with a frontage of 175 ft., to cost $75,000. The syndicate is composed of Geo. B. Hart, Frederick Venter and Samuel Miles.——James H. Reed, Pres. Consolidated Gas Co., has awarded the contract for the new Philadelphia Co. office building at 435 Sixth Ave. to the Thompson-Starrett Co., of New York. The building will be eight stys. high and must be completed by March 1, 1903.——F. C. Sauer, Arch., 613 Hamilton Bldg., will take bids for the Donaldson warehouse, at Liberty and 16th Sts., to be eight stys., of slow-burning construction, and to cost $75,000.

SCRANTON, PA.—The First Presbyterian Church contemplates building a 1-story church at Madison Ave. and Wallare St., to cost $125,000. L. C. Holden, 1135 Broadway, New York, will prepare the plans. Jos. A. Scranton is Chn. Bldg. Com., 227 North Washington St.——The Dime Discount & Deposit Bank will erect a 4-story stone and iron bank building at Spruce and Wyoming Aves., 25 × 50 ft., to cost $40,000. Contracts will soon be awarded. H. C. Rutherford, Arch., 426 Spruce St.

SCRANTON, PA.—Seymour and Paul A. Davis, 3d, 907 Walnut St., will prepare plans for a 7-story fireproof apartment house in this place for Geo. Mahay and associates, to cost $150,000.

WILKESBARRE, PA.—Thomas Pedmore, Arch., 2 North Main St., is taking bids for a 5-story brick business block, 63 × 110 ft., for Geo. S. Bennett, 6 North Main St., to cost $50,000.

ANNAPOLIS, MD.—Bids are asked until April 30 for erecting one commanding and three junior officers' quarters at marine barracks, Naval Academy, Annapolis. Maj. C. L. McCawley, Asst. Q. M., U. S. M. C.——An appropriation of $250,000 has been granted for a 4-story fireproof state house in this city, for which competitive plans will soon be called.

BALTIMORE, MD.—Bids are being taken by George Archer, Arch., Central Savings Bank Bldg., for a 4-sty. fireproof apartment house for a company in which Geo. E. Morrison, Equitable Bldg., is interested, to be located at Park Ave. and Wilson St. It will be 42 × 120 ft., and will cost $50,000.——An appropriation of $175,000 has been asked for the Eastern High School in the northern part of this city. E. D. Preston is Bldg. Inspector, City Hall.——Competitive plans will soon be called for by the Oheb Shalem Hebrew congregation for a synagogue in North Baltimore, to cost about $100,000. Rev. Wm. Roseman may be addressed.——Plans have been filed by Glidden & Myers, Archs., for a 7-sty. apartment house between Hoffman and Dolphin Sts., to cost $90,000. The Cecil Construction Co. has been organized to erect the building.

WASHINGTON, D. C.—Frederick W. Carlyle, Supt. of the construction for the office building to be erected by Thos. F. Walsh, informs us that preliminary plans have been prepared, but nothing further has been done. The proposed structure will be 9 stories, 114 × 118 ft., and will cost $600,000.

FORT MYER, VA.—Bids are asked until May 5 for the erection of a barracks. Capt. W. F. Clark, Q. M.

RICHMOND, VA.—John K. Peebles & Co., Archs., 602 Columbia Bldg., Norfolk, will receive bids until April 23 for a 7-story brick and iron fireprooof hotel, 128 × 136 ft., at Seventh and Broad Sts., for W. H. Zimmerman, 705 East Broad St., to cost $150,000. Steam heating and electric light plants and electric elevators will be installed.

WELCH, VA.—Baker & Dallett, Archs., 1420 Chestnut St., Philadelphia, Pa., inform us that they have completed plans for a 4-story bank building for the McDowell County Bank, but as yet no contracts have been awarded.

WINCHESTER, VA.—The Farmers & Merchants' National Bank, R. S. Barton, Pres., 161 North Main St., will receive bids until April 23 for a 5-story bank and office building at Louden and Rouse Aves., to be 230 × 82 ft., and to cost $30,000. Frye & Chesterman, Archs., Lynchburg.

COLUMBIA, S. C.—A contract has been awarded to M. T. Lewman & Co., Louisville, Ky., for a 12-story office building for the Columbia Real Estate Co., E. W. Robertson, Columbia. It will be 50 × 110 ft., fireproof, and will cost $250,000.

ATLANTA, GA.—Bradford L. Gilbert, Arch., 50 Broadway, New York, has prepared the plans for the new union passenger station, which have been approved.

JACKSONVILLE, FLA.—Plans are being prepared by Oscar Cobb, of Chicago, for a new theatre in this place to cost $40,000. It will be built and operated by a company, to be capitalized at $100,000. The building will be 105 × 210 ft., with four tiers, seating about 2,000 people.

JUPITER, FLA.—C. L. Harding, Arch., 1316 G St., N. W., Washington, D. C., is preparing plans for a 3-story 25 × 40 ft. brick and frame building for the weather bureau at this place. Willis G. Moore, Ch. of Bureau.

MERIDIAN, MISS.—Treefoot Bros. & Co. have purchased the property lying between the city market house and the Central Methodist Church and will erect a 3-story brick store building.

LAKE CHARLES, LA.—Steps have been taken to organize the Gulf Warehouse & Trading Co., with headquarters at this place, for the purpose of building and operating storage warehouses for rice throughout the rice belt. The capital stock will be fixed at $250,000.

NASHVILLE, TENN.—The Gaines Rifles, W. A. T. Kramer, Capt., will erect a 3-story armory in this place, to cost $40,000. Thomas S. Marr is Arch.

PARIS, KY.—The county court has instructed the building committee to ask for plans and specifications for a 2-story court house, to cost $150,000.

CLEVELAND, O.—A. E. Cass is preparing plans for a 5-story building at Erie and Bolivar Sts. for Francis Widlar & Co., to cost $100,000.

CLEVELAND, O.—Dr. William Lincoln is arranging to erect an apartment house at Lake and Bethesda Sts., to be 160 × 50 ft. and six stories high, and to cost $50,000.——F. O. Weary, Arch., Akron, has been appointed by the Builders' Exchange to draw plans for the new Carnegie Library.

CROMWELL, IND.—Bids are asked until May 3 for erecting a 2-story school house in Kunmill. Martin L. Hussey, Trustee.

BERLIN, ILL.—Bids are asked until April 21 for erecting a school-house at this place. Jacob Basse, Pres.

CHICAGO, ILL.—Chas. E. Bartley has purchased the southwest corner of South Park Ave. and 58th St., 100 × 178 ft., and will erect a 30-flat building, at a cost of $100,000, after plans by Arthur Foster, Arch., 4310 Cottage Grove Ave.——A permit has been granted to Schlesinger & Mayer for additional stories on their State St. building, to cost about $400,000.——Frost & Granger, Archs., The Temple, have completed plans for an assembly and recitation hall in connection with the Lake Forest University, to cost $40,000.——Robt. T. Newberry, Arch., 171 La Salle St., has prepared plans for a $170,000 warehouse for the Peabody Coal Co. at the junction of the north and south branches of the Chicago River.——It has been announced that a new building will be erected by the National Medical University near Lincoln Park, at a cost of $1,000,000. Dr. L. D. Rogers is Registrar.——The United States Express Co. has secured ground at Desplaines and Congress Sts., where a stable and warehouse building will be erected, at a cost of $175,000.

EAST ST. LOUIS, ILL.—The Wiggins Ferry Co. has taken out a permit for the erection of a warehouse at Wiggins and Front Sts., to be 120 × 250 ft., and to cost $62,000.

FREEPORT, ILL.—Bids are asked until May 26 for the construction of the U. S. post office at this place. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

GALESBURG, ILL.—Work will be started in about three weeks on the proposed new city hall, to be two stories, 65 × 75 ft.

PEORIA, ILL.—Bids are asked until April 23 for constructing a 2-story pavilion in Laura Bradley Park. B. F. Cartwright, Treas.

SPRINGFIELD, ILL.—Bids are asked until April 25 for erecting a 3-story addition to Saint Mary's Hospital in Streator. Rev. Louis Hinssen, Dir. St. John's Hospital, Springfield.

BELMONT, WIS.—Bids are asked until April 24 for erecting a brick school. W. T. Hughes, Clk. Chas. Com.; H. Klienhammer, Arch., Platteville, Wis.

PEPIN, WIS.—Bids are asked until April 21 for erecting a school house at this place. E. Langers, Clk.

SHEBOYGAN, WIS.—The library board has adopted the plans for the new Carnegie library prepared by Patton & Miller, Archs., of Chicago. It will be a structure, 45 × 90 ft. Work will be started on May 1. Andrew Carnegie donated $35,000.

WAUTOMA, WIS.—Bids are asked until April 21 for the erection of a high school building. E. F. Klug, Clk. School Bd.

DES MOINES, IA.—The Des Moines Elevator Co. has decided to erect a new storage and cleaning transit plant at Moberly, Mo., to have a capacity of 100,000 bushels and a storage capacity of 100,000 bushels.

DULUTH, MINN.—The Killarin Construction Co. has received the contract for the new wholesale building for the Kelley-How Hardware Co., to cost $60,000. Work will begin at once.

ST. PAUL, MINN.—The St. Paul Storage Co. will erect a 10-story warehouse at Market and West Third Sts., to be 90 × 160 ft., and to cost $250,000.——The assembly has adopted the ordinance providing for an issue of $[illegible]00,000 in bonds for building an armory in this city.

KANSAS CITY, MO.—A contract for a 7-story brick and steel office building at 10th St. and Broadway has been awarded by Stephen N. Dwight, Galena, Kan., to the Hucke & Sexton Contracting & Building Co., New York Life Bldg. It will cost about $300,000.

ST. LOUIS, MO.—The contract for the construction of the Machinery Building for the Louisiana Purchase Exposition Co. has been let to Smith & Eastman for $496,957. The building will be 525 × 1,000 ft. The other bidders were: Dunnavent & Estel, $519,895; Goldie Construction Co., $534,440; J. W. Thompson, $559,000; Hill-O'Meara Construction Co., $563,149; R. W. Morrison Construction Co., $565,000; Strehlow & Phelps, $565,141; Daniel Evans, $589,000; Conrad Kellerman, $591,450; Westlake Construction Co., $624,000; Nichols Pellegreen, $638,000; W. O. & C. G. Burton, $651,890.

AUSTIN, TEX.—Bids are asked until April 18 for the erection of a 4-sty brick building for a girls' dormitory for the University of Texas. T. A. Henderson, Chn. Bd. of Regents.

HUTCHINS, TEX.—F. S. Glover, Arch., is preparing plans for the new Hutchins House building, to cost $300,000. The plans were ready for contractors by April 15.

OKLAHOMA CITY, OKLA.—A charter has been secured by the Indian Temple Building Association, which proposes to erect a building in this city to cost about $100,000. Dr. John Threadgill, Lee Van Winkle and Selwyn Douglas, of this city, are interested.

EVERETT, WASH.—J. H. Seymore has secured the contract for the erection of the Beck Opera House at Whatcum, to cost about $85,000.

SPOKANE, WASH.—The Masonic Temple Association will issue bonds to build its proposed temple, which is estimated to cost $42,000.

FRESNO, CAL.—Bids are asked until April 21 for erecting a library building. Chas. E. Jenner, Secy.

MARTINEZ, CAL.—Plans have been prepared by William Mooder & Sons, San Francisco, for a new granite jail building, to cost $35,000. It will replace the old jail and be built on its site.

SAN BERNARDINO, CAL.—B. Lantry Sons, of Strong City, Kan., have obtained the contract for the new shops at this place, to cost about $107,855. The buildings will include an addition to the present machine shop, to be 110 × 200 ft.; new car shops, 110 × 275 ft.; paint shop, 90 × 275 ft.; boiler shop, 82 × 151 ft.; pattern shop, 30 × 60 ft.; and several smaller buildings. The work must be completed by Jan. 1, 1903.

SAN FRANCISCO, CAL.—L. H. Sly will erect a 6-story apartment house in Turk St., to cost $60,000.

VALLEJO, CAL.—Bids are asked until May 24 for the construction of a brick and steel building at the navy yard, Mare Island, for which an appropriation of $92,400 is available. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

HALIFAX, N. S.—Andrew Carnegie has given $75,000 to this city for the erection of a public library.

TORONTO, ONT.—A site for the new public library, for which Andrew Carnegie has given $100,000, will probably be selected on the Rideau Canal reserve.

WALKERTON, ONT.—Bids are asked until April 19 for the erection of a brick hospital at this place. D. MacGillivray, Secy.

ST. ANDREWS, N. B.—Sir Thos. G. Shaughnessy, Pres. Canadian Pacific Ry., will build a summer residence at this place. The work will be done by John P. O'Leary, contractor, Montreal.

MONTREAL, QUE.—The Guardian Fire & Life Assurance Co. has accepted the plans of Findley & Spetse, Archs., Montreal, for its new building on Barron Block, to be nine stories, fireproof and to cost $200,000.

WATER SUPPLY AND IRRIGATION.

HOULTON, ME.—Reports state that arrangements will soon be completed by the council for taking over the works of the Houlton Water Co. for a sum not exceeding $80,000. The city proposes to build a reservoir of 500,000 gallons capacity and extensions to cost about $8,500.

PORTLAND, ME.—The question of buying the works is being considered.

WATERVILLE, ME.—The matter of securing a new water supply is being considered. Address F. A. Powers, of Houlton, Me., and F. H. Appleton, of Bangor.

EAST JAFFREY, N. H.—Bids are asked until May 8 for constructing works, to consist of 19,310 ft. of 12-in. mains, 400 ft. of 10-in., 9,905 ft. of 8-in. and 18,450 ft. of 6-in. mains, 51 hydrants, 40 gates, etc., as stated in our advertising columns. A. W. Dudley, Engr., 936 Elm St., Manchester, N. H.; Abert Annett, Chn. Water Comm.

BENNINGTON, VT.—A town meeting will be held April 22 to consider the question of buying the works of the Bennington Water Co. W. E. Putnam, Pres.; J. H. Kelso, Clk.

ADAMS, MASS.—The question of extending the works will be reported upon at a town meeting on May 23.

DIGHTON, MASS.—The council has again asked the authorities of Taunton to extend the water mains to this place.

MALDEN, MASS.—The council has voted to issue $25,000 in bonds for extending the works.

FALMOUTH, MASS.—The state committee on water supply has voted in favor of granting this city authority to issue $25,000 in bonds for extending the water mains to East Falmouth.

MEDFORD, MASS.—Bids are asked until April 29 for laying about 6,150 ft. of 60-in. cast-iron pipe, etc., as stated in our advertising columns. Wm. N. Davenport, Secy. Metropolitan Water Bd.

PALMER, MASS.—The question of the fire district buying the works is being considered, and also of this town combining with Thorndike, Three Rivers and Bondsville in the deal to build a reservoir, etc., to cost about $150,000.

SPENCER, MASS.—This place is considering the question of installing water meters.

FORT ADAMS, R. I.—Post Q. M. Schumm, Newport, R. I., received the following bids April 8 for installing works including about four miles of 1 to 6-in. mains: Newport Foundry & Machine Co., $18,727; James J. Lynch & Co., $17,970; P. J. Murphy & Co., $16,240; Darling & Slade, Fall River, Mass., $12,430; P. F. Conroy, $12,340.

MIDDLETOWN, CONN.—The council has voted to extend the mains to South Farms, at a cost of about $3,500. Address Mayor Mills.

NEW HAVEN, CONN.—The New Haven Water Co., it is understood, has about completed plans for a sand filtration plant below Lake Whitney, to cost about $300,000. Eli Whitney is Pres.; Geo. W. Fuller is Consult Engr., New York.

BATH, N. Y.—The Bath Water Co. may purchase a 200,000 gallon electric pump. E. F. Keiser is Pres., Towanda, Pa.

CARTHAGE, N. Y.—The water commissioners have engaged Jas. P. Brownell, of this place, to make surveys for securing a new water supply from a spring near here.

FORT PLAIN, N. Y.—This place voted April 10 on the question of issuing $20,000 in bonds for extending the works.

GOSHEN, N. Y.—This place has voted to issue $30,000 in bonds for improving the works.

OSWEGO, N. Y.—The works of the Oswego Water Co. is to be transferred to the city on May 1. The city sold $550,000 of water bonds on April 15. E. B. Mott is Pres. Water Dept.

OWEGO, N. Y.—The Owego Water-Works Co. proposes to make several extensions to its works this year and next. Geo. Y. Robertson is Supt.

ROCHESTER, N. Y.—J. Y. McClintock, Comr. Pub. Wks., has made suggestions for the immediate improvement to the water-works, reservoir, etc.

ROSLYN (L. I.), N. Y.—The Manhasset Water Co. has asked for a 5-year contract for furnishing this city with water. M. S. Wood, Town Clk.

SENECA FALLS, N. Y.—N. C. Freck, W. Gring and J. W. Landes, of Newport, Pa., are reported to have begun work on the proposed water-works, for which they have a 20-year franchise.

TROY, N. Y.—Bids are asked until May 9 for constructing a reservoir and tunnel outlet, as described in our advertising columns. John Phelan, Comr. Pub. Wks.

CALDWELL, N. J.—We are informed that nothing definite can yet be said regarding the works, reported in our last issue, for the work is as yet tentative. The Newark, N. J., "Call" on March 30 reported that plans prepared by Louis L. Tribus, of New York, were adopted a few weeks ago. Estimated cost, about $20,000. Address Mayor Epsy.

JERSEY CITY, N. Y.—We are informed by Edlow W. Harrison, Ch. Engr. Jersey City Water Supply Co., that plans and specifications for subletting the contract for the main dam of the company at Boonton, N. J., were completed on April 14, and that bids for the work would be received on April 21. The preparation of the reservoir at Boonton, the building of four miles of concrete and expanded metal conduit on the hydraulic grade, and laying submerged pipe in the Hackensack and Passaic Rivers will also be sublet. Further particulars regarding the work of this company and its new relations with the East Jersey Water Co. are given in a note published in the body of this issue.

MATEWAN, N. J.—We are informed that Holmes & Hogan, 96 Garfield Ave., Jersey City, N. J., have been awarded the contract for building works, and not Harry A. Miller, of Wilmington, Del., as noted in our last issue.

LANCASTER, PA.—C. W. Cummings, Mayor, has recommended the construction of a filtration and a number of other improvements to the works.

LANSDOWNE, PA.—We are informed that Isaac S. Cassin, Jr., 2906 Girard Ave., Philadelphia, has submitted plans and estimates for works for this place.

LEWISTOWN, PA.—The Lewistown Water Co. has sold its property, franchises, etc., to the Reedsville Water-Works Co., according to reports.

MONACA, PA.—Bids are asked until April 26 for 5,350 ft. of pipe, as stated in our advertising columns. J. P. Leaf, Engr., Rochester, Pa.; N. H. Trumpeter, Secy.

PHILADELPHIA, PA.—Local papers state that the councils are considering the matter of building the fire belt pumping station at once. Director of Public Works Haddock has submitted the following annual report on the proposed filter plants, etc: "The Queen Lane filter site recommended in 1899 was abandoned, as further studies have shown that it is better to supply the districts now supplied from the Queen Lane, East Park, Corinthian and Fairmount reservoirs with water from the Torresdale filter plant, and that it can be done at less expense. The Oak Lane reservoir is a necessary adjunct to this source of supply. The work accomplished at the testing station at the Spring Garden pumping station, and which was commenced in September, 1900, has been of the greatest value. A testing station has also been established along the Delaware River upon the site of the Torresdale filter plant, to examine in detail the characteristics of the Delaware River water; all the analytical work of this station is being attended to in the laboratories of the testing station at the Spring Garden pumping station. The examination of a large number of samples of filter sands has shown that there is an abundance of local sand suitable for use. Specifications, etc., have been prepared for 25 contracts; these plans and specifications cover the construction of 86 filter beds, each with a net area of about 7-10ths of an acre, and a combined capacity at a 3,000,000 gallon rate of 153,700,000 gallons per 24 hours. Seven public lettings have been held for the receipt of proposals for work and materials; the sum limit of the contracts awarded amounts to $11,647,800. Reservoirs at Belmont and Oak Lane have been designed and placed under contract, with a total capacity of 143,000,000 gallons. The capacities of the filters are generally based on 20% of the area being out of service for cleaning. Each plant is provided with a covered filtered water basin constructed of concrete, and generally with a capacity equal to one-half the daily output of the plant. The Torresdale filtered water conduit to carry the filtered water from the Torresdale filter plant to the pumping station at Lardner's Point is being constructed in a tunnel 100 ft. beneath the surface of the ground and through rock. The finished inside diameter is 10 ft. 6 ins., and the length between the permanent end shafts is 13,815.15 ft. In addition to the two permanent end shafts, nine intermediate working shafts are being sunk to hasten the construction of the work. The nominal capacity of the finished conduit will be 300,000,000 gallons per day. Work has begun upon all of the working shafts and they are practically down to rock formation. Adequate plants have been established by the contractor to supply compressed air for the tunnel operations. Distribution mains for increased service and other necessary purposes have been placed under contract, involving 31 miles of mains, with 24,208 tons of cast-iron pipe and specials. A large amount of this work is completed. Work has been started on 14 contracts. The lower Roxborough filter plant, to supply the lower portions of Germantown and Manayunk, is nearing completion. The concrete work is completed, the pipes laid and the filters are now about ready for the filtering materials. At upper Roxborough all excavations have been made; the work on the filtered water basin is well advanced and the pipe system is being urgently pushed. At Belmont good progress is being made. A large amount of excavation is completed; a very considerable part of the reservoir embankment has been placed; the sewerage system completed, and the pipe lines are being vigorously prosecuted. A 48-in. pipe line has been laid on Broad St. from Arch to York Sts., and a large percentage of the new lines for bringing the filtered water from Lower Roxborough to Germantown and Manayunk have been completed."

PITTSBURG, PA.—Local papers state that new estimates are about ready for the proposed filtration plant, to cost about $3,125,000, and that bids will be asked by the new councils. The itemized figures of the bids received Feb. 24 for this work were published in our last issue. J. Guy McCandless is Dir. Pub. Wks.

RIDGWAY, PA.—This place will vote April 29 on the question of issuing $26,000 in bonds for improving the works.

WEST MIDDLESEX, PA.—We are informed that G. B. Zahniser, Clendinin Block, Newcastle, Pa., is preparing plans, etc., for works, to consist of 15,000 ft. of 4, 6 and 8-in. mains, a concrete lined reservoir, 50 × 50 × 12 ft., 15 to 20 hydrants, 250 to 300 tops, two drilled wells, gas engine, etc. The bond issue is yet to be voted upon.

TAKOMA PARK, MD.—B. G. Davis, Town Clk., writes us that the only work contemplated this year is the installation of a duplicate pumping plant for use in case of emergency.

BLACKSTONE, VA.—A report on the matter of works has been made by J. M. Harris, H. H. Seay, Jos. M. Hurt and W. A. Land. The council has voted $15,000 for the improvement.

BUCKHANNON, VA.—Reports state that G. F. Stockes has been granted a franchise for works.

KEYSTONE, W. VA.—The council has voted to issue $25,000 in bonds for works and an electric plant.

CHARLESTON, S. C.—Dr. P. E. Chazal and Dr. Robt. Wilson are investigating the matter of installing a filter plant in this city. J. A. Smith is Mayor.

FLORENCE, S. C.—This place has voted to issue $10,000 in bonds for extending the works.

WALHALLA, S. C.—J. V. Stribling, Engr., Anderson, S. C., writes us that surveys for gravity works, to be owned by a company, have been made. There will be about 20,000 ft. of pipe, etc. The elevation of the water supply above town is 330 ft. There will either be a standpipe or a gravity pressure line. Pop., 2,000. J. W. Shelor, Pres.

BIRMINGHAM, ALA.—The matter of building its own works and electric plant is being considered by the board of revenue.

JACKSON, MISS.—Reports state that the council will consider the matter of buying the works.

TERRY, MISS.—C. H. Jenks, of Fayette, Miss., writes us that plans for works and an electric plant will soon be prepared.

LAFAYETTE, LA.—Reports state that this city will issue $14,000 in bonds for extending the works and electric plant. E. G. Voorhies, Clk.

NASHVILLE, TENN.—J. E. Thompson has been granted a franchise to build works in West Nashville, upon putting up a bond for $10,000.

CINCINNATI, O.—Bids are asked until May 2 for furnishing water pipe, castings, loam, etc. Geo. F. Holmes, Clk. Bd. Pub. Service.——The following bids were received by the water-works commissioners April 4 for grading the grounds, constructing pump pit, engine foundations, conduits, etc., at the western pumping station: Western Construction Co., of Indianapolis, $169,828 (accepted); Frank Kirchner, of Cincinnati, $181,141; W. J. Gawne & Co., Cleveland, $185,487; National Construction Co., Cincinnati, $193,197; United States Construction Co., Milwaukee, $189,849; C. H. Fath & Sons, $193,953; M. Sullivan, Cincinnati, $230,695.

FINDLAY, O.—This city has voted to issue $150,000 in bonds for new works. C. B. Metcalf is Mayor.

LANCASTER, O.—The council has been asked to lay about 7,900 ft. of new water mains. A. G. Miller is Supt.

MIAMISBURG, O.—This city has voted for municipal works. Address Mayor Shuler.

NEWARK, O.—This place has voted to own the works. L. E. Chapin is Consult. Engr., Canton, O.; F. T. Mausath is Cy. Clk.

NEW BREMEN, O.—This town will vote May 5 on the question of issuing $35,000 in bonds for works and $15,000 for an electric plant.

WELLSBURG, O.—This place has voted to issue $10,000 in bonds for water-works purposes.

AURORA, IND.—John A. Cole & Son, of Chicago, Ill., are reported as preparing plans for works and an electric plant. Geo. E. Downey, Mayor.

INDIANAPOLIS, IND.—The Indianapolis Water Co. is making arrangements to begin the construction of a new sand filter plant, to cost about $200,000. The new pumping plant, costing about $450,000, will be completed this summer. F. A. W. Davis, Secy. and Treas.——The board of works is considering the matter of extending the mains to Irvington, etc., requiring about 25,000 ft.

NEW ALBANY, IND.—John Tevis, of Louisville, Ky., has purchased the controlling interest in the New Albany Light, Heat & Power Co.

RICHMOND, IND.—The Richmond City Water-Works Co. has made a contract with Wm. Rehling, of this city, for a cement bottom to the reservoir, to cost about $5,000.

TERRE HAUTE, IND.—The Terre Haute Water Co. proposes to extend its mains beyond the city limits.

GRAND RAPIDS, MICH.—The board of public works has been asked to lay about four miles of new mains. Address City Engineer Anderson.

HILLSDALE, MICH.—Ex-Mayor H. C. Blackman writes us that this city has voted to issue $8,000 in bonds for a 150-HP. Corliss engine, dynamo, boiler, etc., for the electric plant addition. Bids will probably be asked inside of five weeks.

HOLLAND, MICH.—This place has voted to issue $55,000 in bonds for extending the works and for an electric plant.

PORT HURON, MICH.—F. T. Moore, Mayor, has recommended the intake be extended at once into midstream of the St. Clair River.

SAULT STE. MARIE, MICH.—Bids are asked by the board of public works until April 21 for constructing a new pumping station and intake. The bids recently received were as follows: Pump house—Lipsett & Sinclair, $22,000; Henry Ferge, $21,463. Intake—Derocher & Zess, $3,460; King & Steel, $4,750.

ZEELAND, MICH.—The council has abandoned for the present the matter of municipal works and electric plant, and has renewed the contract with the water company.

AURORA, ILL.—Bids are asked until April 21 for water mains and sewers. M. G. Stolp, Engr.

CHICAGO, ILL.—Bids are asked until April 26 for water mains in a number of streets. J. A. Way, Secy. Bd. Impts.

ELGIN, ILL.—This place will soon vote on the question of issuing bonds for new works to cost $100,000. The water supply is to be received from the Fox River or artesian wells.

ROCK ISLAND, ILL.—The question of buying a new pump or installing a general meter system is being considered. Address Water-Works Superintendent Bancroft.

VIRGINIA, ILL.—A. R. Syles, Mayor, writes us that it is not likely that anything will soon be done regarding works, recently reported. Pop. 2,000.

APPLETON, WIS.—Judge John Goodland has denied the injunction asked for by the Kimberly & Clark Co. to restrain the Appleton Water-Works Co. from taking water from the Fox River to supply the city. The contention was that the water company is taking about two-horse power, which belongs to the plaintiff.

ARCADIA, WIS.—The following contracts for the proposed works have been let: Mains, hydrants, etc., J. P. Miller & Co., Chicago, $12,300; pump and boiler foundations, etc., C. A. Sweet, Arcadia, $4,245; boiler feed pump and 1,500,000 pump, Stilwell-Bierce & Smith-Vaile Co., Chicago.

BLOOMER, WIS.—We are informed that this place voted April 1 not to issue bonds for works.

COLLINS, IA.—This place has voted to issue bonds for works. Address Mayor Bromley.

DES MOINES, IA.—The council, it is stated, will order the water company, Chas. Denman, Secy., to lay about ten miles of new water mains.

ANOKA, MINN.—This place is reported to have voted against issuing bonds for works.

DULUTH, MINN.—L. N. Case, Mgr. W.-W., has let the following contracts for water mains, etc.: Excavating, Fairbanks, Morse & Co., St. Paul, $9,988; iron pipe, about 27,000 ft., U. S. C. I. Pipe & Foundry Co., Chicago.

TRUMAN, MINN.—Bids are asked until 8 p. m. April 21 for sinking an 8-in. well for a water supply. N. T. True, Pres.

GIRARD, KAN.—J. B. Grantham, Cy. Clk., writes us that an election will be held May 15 to vote on the question of issuing $10,000 in bonds for extending the works and $5,000 for gas. There will probably be about two miles of pipe, 12 hydrants, etc. The new water supply will be secured from wells 300 ft. deep.

WATERTOWN, S. DAK.—S. B. Howe, Cy. Engr., of Sioux Falls, S. Dak., is preparing a report upon the proposed improvements to the works here.

JAMESTOWN, N. DAK.—Bids are asked until 2 p. m., April 21 for improving the works. Prof. J. J. Crather, Des. Engr., Minneapolis; G. C. Eager, Cy. Audr.

SHERIDAN, WYO.—Bids are asked until May 9 for furnishing the materials and for constructing a reservoir of 1,000,000 gallons, water mains, sewers, etc., at Ft. McKenzie. Capt. R. L. Brown, Q. M., U. S. A., Sheridan.

BOZEMAN, MONT.—The Bozeman Creek Reservoir Co., it is stated, is preparing to build a dam, etc., for irrigation purposes, to cost $10,000, according to reports.

FORT BENTON, MONT.—M. E. Milnes, of the Milnes Livestock Co., proposes to sink artesian wells about 1,500 ft. deep for a water supply.

GREAT FALLS, MONT.—This place has voted to issue $45,000 in bonds for extending the works.

PHILIPSBURG, MONT.—An election will probably soon be held to vote on the question of issuing bonds for works.

PONY, MONT.—W. S. Duncan, Mayor, writes us that plans for the proposed works are not yet prepared.

MARSHALL, MO.—This city has been enjoined from building its own works and electric plant.

ST. LOUIS, MO.—Bids are asked until noon April 25 for furnishing 3,000 tons of 6, 8, 10, 12 and 36-in. c.-i. water pipe, 200 tons of castings, 160 stop valves, 200 fire plugs, etc., and laying 63,000 ft. of water pipe and setting 140 fire plugs. Hiram Phillips, Pres. Bd. Pub. Impt.

DUQUEEN, ARK.—C. A. Rees, of Fayetteville, Ark., has been engaged to prepare plans for works here, according to reports.

HEMPSTEAD, TEX.—The property of the Hempstead Water-Works Co. has been transferred to the Southwestern Improvement Co., of Houston, Tex., recently incorporated with a capital of $100,000.

MINERAL FALLS, TEX.—This place has voted to issue $18,000 in bonds for works, etc., according to reports.

PLANO, TEX.—Jos. Bradshaw, Cy. Secy., writes us that bids for artesian well have been called. Pop., 2,500.

VICTORIA, TEX.—This place has voted to issue $7,000 in bonds for a new water main.

PURCELL, IND. TER.—The Purcell Water Co. has been incorporated with a capital of $45,000 to build works. Dorset Carter, W. G. Blanchard and G. W. Brown are interested.

BASALT, COLO.—Reports state that this place has voted to issue $12,000 in bonds for works. I. H. Mitchell, Recdr.

FORT MORGAN, COLO.—Plans are completed for a large reservoir near this place. Three other reservoirs are proposed and four others are now under construction, according to reports. A. L. Fellows, Res. Hydrographer, Denver, Colo., may be addressed.

GOLDEN, COLO.—Engineer Hope has made estimates for securing a new water supply from Beaver Brook to cost $96,000.

PAGOSA SPRINGS, COLO.—Gilbert Wilkes & Co., of Denver, Colo., have been granted a franchise for works and an electric plant to cost about $20,000.

FAIRVIEW, N. MEX.—The Fairview Ditch Co. has been incorporated with a capital of $10,000 by Richard M. Willis, Jos. A. Rogers and H. T. Conger.

CHELAN, WASH.—Henry Buckner, of Seattle, Wash., is reported as proposing to build works here.

TACOMA, WASH.—The Northern Pacific Irrigation Co. has been incorporated by C. S. Mellen and Danl. S. Lamont, of the N. P. Ry. Co., to build irrigation canals, dams, etc., on land adjacent to the N. P. Ry.

NATIONAL CITY, CAL.—Vice-President Woodward, of the Cal. Redwood Co., of Los Angeles, is reported as considering the matter of building a pipe line from De Lesa to the Sweetwater dam, to cost about $175,000.

VALLEJO, CAL.—Rollins & Sons, of N. Y., have purchased $90,000 of this city's bonds, the proceeds to be used for the proposed works.

TREKA, CAL.—This place has voted to issue $55,000 in bonds for works, according to reports.

KENDRICK, IDAHO.—This place is reported to have voted to issue $11,000 in bonds for works.

MOUNT PLEASANT, UTAH.—The McArthur-Frandsen Ditch Co. has been incorporated with a capital of $5,535; Jas. Larsen, Pres.; N. P. Neilson, Secy.

PRICE, UTAH.—R. G. Miller, A. J. Lee and Hyman Frandsen compose a committee to report May 5 on the question of works, to cost $15,000.

HULL, QUE.—This place has voted to issue $73,000 in bonds for extending the pumping station, electric plant, etc. Address City Engineer Farley.

MONTREAL, QUE.—City Analyist Hersey has recommended that a filtration plant be built and that other improvements be made to the works.

SPRINGHILL, N. S.—E. G. Hopson, of Halifax, N. S., it is stated, will probably prepare plans for works to cost $160,000.

MONCTON, N. B.—Reports state that this place has been directed to issue $87,000 in bonds for an additional water supply.

PORT ARTHUR, ONT.—The matter of building works and extending the sewers is being considered. Address Mayor Matthews.

SMITH'S FALLS, ONT.—The council intends to raise $43,162 for water and sewer purposes, according to reports. B. E. Sparham, Town Clk.

STRATFORD, ONT.—The council has been asked by the board of trade to take steps towards the municipal ownership of the works of the Stratford Water Supply Co.

VICTORIA, B. C.—Bids are asked until 3 p. m., April 21, for furnishing 6,500 ft. of 4-in. c.-i. water pipe. W. W. Northcott, Purchasing Agent.

SEWERAGE.

BANGOR, ME.—An ordinance has been passed for the extension of the West Bangor intercepting sewer, at a cost not to exceed $10,000.

YORK, ME.—It is reported that R. W. Libby, C. E., Saco, Me., is to make surveys for a sewerage system for this place.

BOSTON, MASS.—Bids are asked until May 14 for building section 61 of the high level sewer in Milton, as stated in our advertising columns. Wm. N. Davenport, Secy., Metropolitan Water and Sewerage Bd., Boston.

DEDHAM, MASS.—This town has appropriated $27,000 for the extension of the sewerage system in the Oakdale District.

LENOX, MASS.—A committee has been appointed to investigate the present sewage disposal system, and to report regarding its enlargement and needs. Thomas Post is a member of the committee.

METHUEN MASS.—Bids are asked until April 24 for the construction of two sections of sewer work. E. Worthington, Eng.; Edw. A. Bower, Selectman.

NORTHAMPTON, MASS.—The sewer commissioners have voted to extend the sewer system in a new street near North St., in Trinity Road, Florence, and in Forbes Ave. Engineer Thacher was also authorized to make surveys for the extension of the system to the Connecticut River.

SOUTH HADLEY FALLS, MASS.—It is reported that plans for a sewerage system are being considered by this town.

WESTFIELD, MASS.—The sum of $105,000 has been appropriated here for surface drainage.

PROVIDENCE, R. I.—Resolutions ordering the construction of sewers in five streets or avenues, at an estimated cost of about $9,800, have been passed.

NEW BRITAIN, CONN.—Rights of way for the new sewer system to the filter beds have been secured and the sewer board has recommended the building of filter beds at once.

ROCKVILLE, CONN.—It is reported that plans and specifications for the new storm sewer to be constructed on Maple and Union Sts. are to be prepared soon by City Engineer McKnight. The city has appropriated $15,000 for the sewer and work will be commenced as soon as possible.

SHELTON, CONN.—The sewer committee has been authorized to call for bids for the construction of a sewer. About 4,200 ft. pipe sewers of various sizes and 19 catch-basins will be required.

NEW YORK, N. Y.—Bids are asked by the Brooklyn borough president until April 23 for building 48-in. wooden barrel outlet sewer at the foot of Sackett St., Brooklyn.

ROME, N. Y.—John L. Plunkett, Paving Inspector, writes us that bids will be opened April 21 for 2,600 ft. 12, 15 and 18-in. pipe sewers, of an average cut of 6½ ft.

SARATOGA SPRINGS, N. Y.—A bill authorizing this city to issue $100,000 of sewer bonds has been signed by the governor.

WATERTOWN, N. Y.—The governor has signed the bill permitting this city to borrow $75,000 for sewer, pavement and highway construction.

WHITE PLAINS, N. Y.—According to reports, this place is considering the question of sewers.

CAMDEN, N. J.—Fred. W. George, Clk. Bd. Freeholders, writes us that the following bids were received April 7 for a sewage disposal plant at Blackwood: Geo. Pfeiffer, Jr., Camden, N. J., $6,840; S. M. Neff, 120 Liberty St., New York, $8,900; Bacterial Sewage Purification Co., 149 Broadway, New York, $6,750; Blow & Mines, Camden, N. J., $4,997. The contract was awarded to Blow & Mines.

CAPE MAY, N. J.—This city has been authorized to issue $360,000 of sewer and water bonds.

HOBOKEN, N. J.—The contract for building the main lateral sewer on Bergenline Ave., West New York, has been let to Callery & Murphy, at $42,630.

REDBANK, N. J.—The contract for building the Redbank sewage disposal plant has been let to Ambrose Matthews, at $3,866.

JERSEY CITY, N. J.—The bill authorizing townships to build sewers has become a law, and it is reported that North Bergen will commence work soon on the building of an outlet sewer through the part of the town that lies west of West Hoboken.

NEWARK, N. J.—Bids are asked until May 8 for building section 2 of the joint outlet sewer, as stated in our advertising columns. Alexander Potter, Ch. Engr.; W. L. Glorieux, Chn.

TRENTON, N. J.—Plans are being made by C. C. Hasen, Cy. Engr., for concrete sewers.

WEST HOBOKEN, N. J.—Bids are asked until April 23 for the construction of a sewer in Central Ave. John P. McMahon, Town Clk.

CANONSBURG, PA.—The following bids were received for constructing the sanitary sewer system and Jefferson Ave. sewer: Dickson & Applegate, Sewickley, Pa., sanitary sewer, $29,028; Jefferson Ave. sewer, $3,200; Hummer Carroll, Marion, O., sanitary, $27,838; Jefferson Ave., $2,498; Lee Craig, Pittsburg, sanitary sewer, $42,375; Jefferson Ave., $3,800; Cronin & O'Herron, Pittsburg, $34,618, sanitary sewer; $27,500 brick sewer, Jefferson Ave.

HAZLETON, PA.—Bids are asked until April 18 for the construction of about 260 ft. 12-in. terra cotta main pipe sewer and 240 ft. 6-in. service pipe. A. B. Cellax, Cy. Engr.

NORRISTOWN, PA.—S. Cameron Carson, Boro. Engr., writes us that owing to the fact that the recent loan of $150,000 has not been placed and is being readvertised, the committees on sewers and highways have decided and so announced to the bidders that they could not entertain proposals for permanent work, and would only accept proposals for furnishing the usual annual supplies. The bids received were opened and reported for action by the council April 15. It was also announced that when the $150,000 bonds are placed a new call for bids would be made.

WILMINGTON, DEL.—This city has been authorized to issue $25,000 of street and sewer bonds.

MARTINSVILLE, VA.—It is reported that City Engineer Gregory has completed surveys for putting in a sewerage system and that bonds for that purpose have been sold.

GREENWOOD, S. C.—W. C. Calhoun, Clk. and Treas., writes us that F. M. Stafford & Co., Chattanooga, Tenn., have been awarded the $40,000 sewerage and water and light plant extension bonds.

GAINESVILLE, GA.—An election is to be held May 6 to vote on a bond issue of $50,000. Of this sum $20,000 is for a sewerage system, $20,000 for a school building and $10,000 for macadamizing the streets.

BIRMINGHAM, ALA.—The contract for the construction of a storm sewer in Powell Ave. has been let to Mitchell, Minus & Co., at $6,236.

NEW ORLEANS, LA.—Bids are asked until May 5 for constructing open and lined canal on Nashville Ave. Irwin Jamison, Secy. Drainage Comn.

JOHNSON CITY, TENN.—This city is considering the establishment of a complete sewerage system, and surveys for that purpose have been made.

CINCINNATI, O.—Plans and specifications for the reletting of a trunk sewer in Ninth St. and 15 lateral sewers have been adopted, and the clerk has been instructed to readvertise for bids. The total cost is estimated at $45,000. It is reported that bids are to be called for soon, if they have not been already, for work on the Crawfish Creek sewer, including the Kellogg sewer system, in the East End. The work will cost about $34,000.

CLEVELAND, O.—Bids are called for by the county engineer until April 28 for completing the general sewerage system. The probable cost of the work is $51,000.

CLEVELAND, O.—Bids are asked until May 6 for the construction of a main intercepting sewer, as stated in our advertising columns. Chas. P. Salen, Dir. Pub. Wks.

COLUMBUS, O.—The election April 7 resulted in a majority vote in favor of a bond issue of $400,000 for sewer purposes. There is some doubt, however, concerning the legality of issuing the bonds.

BATAVIA, ILL.—It is reported that a sewerage system is to be put in here this summer.

KEWANEE, ILL.—Reports state that this city contemplates the construction of about five miles of sewers, and that bids are to be called for in about two months.

ADAMS, MINN.—Bids are asked until May 1 for the construction of sewers in this village. Wm. W. Dean, Recorder.

FAIRMONT, MINN.—E. C. Stowe writes us that it is very unlikely that anything will be done about sewerage in this place this year.

MINNEAPOLIS, MINN.—The construction of sewers in seven streets or avenues have been recommended by the council sewer committee.

SEATTLE, WASH.—Plans and specifications for sewers in the Eastlake Ave. district, estimated to cost about $18,000, have been approved and bids for the work will be opened about April 26. Sewers are to be placed in seven streets and avenues.

COQUILLE CITY, ORE.—Plans for water-works and sewerage system for this place are being prepared by E. W. Cummings, Consult. Engr., 70 Dexter Horton Bldg., Seattle, Wash. The sewerage system is to cost about $12,000.

PORTLAND, ORE.—Resolutions of intention to construct sewers in seven avenues and streets have been adopted.

PASADENA, CAL.—The contract for the construction of sewers on Lincoln Ave., Peoria St., Orange Grove, Yolo, Manzanita and Carlton Ave., has been awarded to S. J. Edwards, at $4,045.

SAN DIEGO, CAL.—It is reported that plans are being made to bond the city for extensions to the sewer and water systems and the building of boulevards.

SANTA ROSA, CAL.—The sewer committee, J. W. Keegan, Chn., has recommended a thorough overhauling of the sewerage system, and that a septic tank and two filter beds be constructed at the sewage farm.

BRANTFORD, ONT.—We are informed that James Hutcheon, Cy. Engr., Guelph, Ont., has prepared plans for a sewerage system and disposal works for this place. The estimated cost is about $45,000.

LONDON, ONT.—The contract for the construction of a sewer and storm drain in Rectory and King Sts. has been let to Harding & Leathorn, at $3,100, with side drains at 23 cts.

DAUPHIN, MAN.—A by-law has been passed to expend $140,000 for the installation of sewerage system, waterworks and purchase of an electric light plant. Theo. Burrows, M. L. A. for Dauphin, Winnipeg P. O.

GARBAGE DISPOSAL—STREET CLEANING.

NEW YORK, N. Y.—Street Cleaning Commissioner Woodbury received the following bids April 15 for the final disposition of the garbage of Brooklyn for five years; N. Y. Sanitary Utilization Co., $47,000; Donovan & Co., Chicago, $174,000; McGill, McCarthy Co., $91,000; E. T. McKeever, $139,000.

BELLEVUE, PA.—Dr. J. C. Welch, Secy. Bd. of Health, has requested the council to take immediate action regarding the building of a garbage crematory. E. C. Skyes, Pres.

BALTIMORE, MD.—Paul Inglehart, Comr. of Cleaning, informs us that the following bids were received April 9 for collecting and disposing of garbage, animals, etc.: F. W. Feldner, Baltimore, $147,300; H. H. Chamberlain, Detroit, Mich., bid not given; probably with John B. Corliss, of Detroit, who bid $15[illegible]; American Waste Disposal Co., Philadelphia, $317,[illegible].

BIRMINGHAM, ALA.—The matter of a b[illegible] method of collecting and removing the garbage is being considered by Mayor W. M. Drennen.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until April 21 for sprinkling streets for one year.

MILWAUKEE, WIS.—Bids will be asked at [illegible] by the board of public works for sweeping the [illegible]kpaved streets for five years with rotary brush sw[illegible]. It is probable that the compressed air street w[illegible]g and sprinkling machines will be specified in the [illegible]ract for cleaning asphalt, brick and stone pavements.

OTTUMWA, IA.—Bids are asked until April [illegible] for removing the garbage, etc., for six months from May 1. Dr. F. B. Hyatt, Chn. Sanitary Com.

BUTTE, MONT.—F. C. Bickenbach, Cy. Engr., writes us that only one bid was received about a month ago for a crematory and was rejected, and since then nothing further has been done.

DENVER, COLO.—A. T. Worthington has submitted a bid at $300 a month for disposing of the city garbage, etc. Edward Keogh offered to give a bonus of $3,000 a year, and J. A. Worthington offered $25 a month for the contract.

STREETS AND ROADS.

DARTMOUTH, MASS.—At the annual town meeting a considerable sum of money was appropriated for macadamizing.

DEDHAM, MASS.—This town has voted to appropriate $5,000 for the rebuilding of Westfield St.; $1,200 for the improvement of sidewalks, and $6,000 for grading the Oakdale school grounds.

LEE, MASS.—It has been voted to raise $3,000 for macadamizing on Center St.

PITTSFIELD, MASS.—The finance committee has recommended to the aldermen that a petition be sent to the legislature for authority to borrow $100,000 for street paving.

WARE, MASS.—The town has voted to borrow $7,000 for paving purposes.

WEBSTER, MASS.—The sum of $5,000 was appropriated at the annual election for macadamizing on East Main St.

WESTFIELD, MASS.—At the annual election April 7 the sum of $25,000 was voted for highways.

WOBURN, MASS.—The total cost of widening South Main St. has been estimated at about $100,000.

WORCESTER, MASS.—Local press reports state that the work of paving Main St., from Lincoln Square to Chandler St., will be begun by May 1. The total cost of the work will be not far from $100,000.

HARTFORD, CONN.—Contracts for state roads have been let as follows: 5,800 ft. of gravel road in the town of Fairfield, to the town, at 65 cts. a ft.; 895 ft. of macadam in the town of Seymour, to B. D. Pierce, Jr., Co., at $1.93; 5,240 ft. of macadam road in the town of Orange to A. Brazos & Co., 97 cts., a ft.

NEW LONDON, CONN.—Bids are asked by the constructing quartermaster until May 12 for constructing roads and sidewalks at Fort H. G. Wright, Fisher's Island, N. Y.

ALBANY, N. Y.—Bids are asked until May 5, 7 and 9 for state highway improvements, aggregating nearly 200 miles, at a cost of about $1,500,000, as described in our advertising columns. Edw. A. Bond, State Engr. and Surveyor, Albany.

BUFFALO, N. Y.—Bids are asked until April 23 for the paving of Grace and Randall Sts. Francis G. Ward is Comr. Pub. Wks.——Contract in the sum of about $53,000 for paving with asphalt, stone and brick have been let as follows: Terrace, asphalt and stone, H. P. Burgard, $15,500; Marilla St., asphalt, Barber Asphalt Co., $14,417; Peoria St., brick, John Mumm, $2,100; Sage St., brick, Louis H. Gipp, $8,962; Ryan St., brick, Louis H. Gipp, $10,700; Lake St., asphalt, H. P. Burgard, $1,300.

COHOES, N. Y.—Plans and specifications for paving Columbia, Division and Egbert Sts., and part of Vliet St., are to be prepared by April 25.

NIAGARA FALLS, N.Y.—The contract for paving Pierce Ave. has been let to H. P. Burgard, Buffalo, N. Y.

ROME, N. Y.—John L. Plunkett, paving inspector, writes us that bids are to be asked after April 16 for 23,050 sq. yds. of asphalt paving, and 4,000 yds. brick paving.

WATERTOWN, N. Y.—This city has been authorized to borrow $75,000 for highway and pavement construction, and sewers.

HACKENSACK, N. J.—The contract for macadamizing Main St. in East Rutherford has been let to F. J. Marley, at $2.593.

JERSEY CITY, N. J.—Chas. A. Van Keuren, Cy. Engr., has submitted estimates of the cost of widening lower Montgomery St. from Grove to Warren. The cost of the improvement will amount to about $46,000.

LAKEWOOD, N.J.—Bids are asked by the Ocean County freeholders until May 9 for building about 3.69 miles of gravel road. Wm. Segoin, Engr., Point Pleasant, N. J.; C. D. Kelley, Dir.

NEW BRUNSWICK, N. J.—It is reported that this city is to do about $50,000 worth of paving this year.

TRENTON, N. J.—Asphalt paving from Willow St. to D. & R. Canal on State St. is contemplated.

SCRANTON, PA.—Jos. P. Phillips, Ch. Engr., writes us that it is proposed to lay about 7,500 sq. yds. of vitrified brick paving at an estimated cost, including the curbing, of $20,894.

RUTLEDGE, PA.—Bids are asked until April 30 for constructing brick and crushed stone sidewalks. August Hofstetter, Ch. Burgess.

CLIFTON FORGE, VA.—This city voted to issue $15,000 of street improvement bonds.

RICHMOND, VA.—It is reported that Henrico county is considering the question of issuing of $350,000 road improvement bonds.

CAMERON, W. VA.—It has been decided to pave Main St. with brick to a width of 21 ft.

MOUNDSVILLE, W. VA.—Improvements amounting to about $[illegible] have been decided upon for 2d and 11th Sts.

ASHEVILLE, N. C.—Bids are asked until April 22 for laying about 17,000 sq. yds. of vitrified paving brick. B. M. [illegible] is Cy. Engr.

HENDERSONVILLE, N. C.—The question of a $35,000 bond issue for street paving and an electric light plant will be voted upon May 6.

JACKSONVILLE, FLA.—Bids are asked until May 7 for grading 55,294 sq. yds., 45,734 lin. ft. wood curbing, for furnishing on the street and for laying 55,294 sq. yds. oyster shell; 55,294 sq. yds. Volusia shell, and until May 12 for grading 6,622 sq. yds.; 3,521 lin. ft. stone curbing; 16 circular stone corners, and for laying 6,622 sq. yds. vitrified paving blocks. Philip Priolean, Cy. Engr.

BIRMINGHAM, ALA.—The contract for the brick guttering of 14th 15th, 16th and 17th Sts., has been let to B. O. Watkins, at $7,800.

DELHI, O.—It is reported that this village has voted to issue bonds for street improvements.

ST. CLAIR, O.—It is reported that this town has voted to issue $18,000 of bonds for improving the Calcutta road.

ELMWOOD PLACE, O.—This village has voted to issue $12,000 of bonds for street widening.

GLENVILLE, O.—Bids are asked until April 30 for grading, curbing, and paving of, and construction of storm water sewer in Doan St. Ira C. Farley is Village Clk.

HELENA, O.—The county commissioners have decided to call for bids for grading the road between this city and East Helena.

MASSILLON, O.—This city has voted to issue $40,000 of bonds for street improvements.

OBERLIN, O.—W. B. Gerrish, Cy. Engr., writes us that bids will be received until May 6 for 6,000 yds. of brick paving.

AUBURN, IND.—A local press report states that Peters & Hanna, Fort Wayne, Ind., have contracted to lay $72,000 worth of pavements in this city.

INDIANAPOLIS, IND.—The board of works has adopted resolutions for the paving with asphalt of Shelby St., 4,370 ft., at estimated cost of $49,150. The board also adopted a resolution for paving with asphalt of West St., at an estimated cost of $29,750. Resolutions were also adopted for the paving of East Michigan St., with wooden blocks, at a cost of about $20,000.

MICHIGAN CITY, IND.—Bids are asked until April 21 for 8,200 sq. yds. brick paving and 6,700 yds. macadamizing. H. M. Miles, Cy. Engr.

BENTON HARBOR, MICH.—This city has voted to issue $25,000 of bonds for asphalt paving. Willard J. Banyon, Cy. Clk.

HANCOCK, MICH.—The council has passed an ordinance for the paving of Quincy St. with asphalt, brick or creosoted wood block, at a cost of about $28,000. About 8,154 sq. yds. of paving will be needed.

MANISTEE, MICH.—This place has voted to issue $125,000 of street paving bonds.

MIDLAND, MICH.—W. F. Brown, Consult. Engr., Law Bldg., Toledo, O., has prepared plans for about 16,150 sq. yds. tar macadam paving; estimated cost $23,950. He has also made plans for regular and telford macadam paving; the cost of these latter plans is about $16,000 or $18,000. The city has issued bonds for $19,000, and bids are to be called for as soon as the new council organizes.

SEBEWAING, MICH.—This place is soon to vote on the question of a bond issue for 20 miles of stone roadways.

TRAVERSE CITY, MICH.—Chas. M. Beers, Cy. Clk., writes us that following bids were received for paving on Front and Union Sts.: J. C. Davis, Saginaw, Mich., $29,929; fPaff, Ringwald & Smith, Chillicothe, O., $29,387; J. J. Granville, Saginaw, Mich., $25,920; John Scanlan, Saginaw, Mich., $25,653; Albert Prany, Grand Rapids, Mich., $23,610; The Barber Asphalt Co., Detroit, Mich., $26,455; Sefmour & Stockton, Flint, Mich., bid $12,621 for paving Union St.

MCLINE, ILL.—The contract for paving 15th St. has been let to the Barber Asphalt Paving Co., at $57,656.

PEORIA, ILL.—The contract for paving on Wisconsin Ave. has been let to Thompson & Case, at $4,081.

LA CROSSE, WIS.—Frank Powell, Cy. Engr., writes us that the contract was let to Wooley & Hanson, La Crosse, for 65,000 yds. granite top macadam, 35,000 ft. cement concrete curb and gutter, at $62,000. A contract has been let to Bacheller & Mead, La Crosse, for 6,700 yds. brick on concrete; 3,300 ft. sandstone curb, at $14,900.

ASHLAND, MINN.—The paving committee has recommended that Second St. be paved with vitrified brick, Vaughn and Fourth Aves. macadamized, Ellis Ave. paved with brick and Second St. repaired with cedar blocks.

MANKATO, MINN.—The question of asphalting Jackson St. from Front to Second St. is being considered by the council.

MINNEAPOLIS, MINN.—Local press reports state that 10th St., is to be paved with creosoted wooden blocks. The total cost of the work will be about $30,845. Four other streets are to be paved this summer, irrespective of any bond issue.

TOPEKA, KAN.—Bids are asked until May 5 for furnishing all the material for keeping in repair the asphalt pavements for a term of five years. J. H. Squires is Clk.

OMAHA, NEB.—An ordinance for the issue of $78,000 of paving bonds has been before the council.

CHEYENNE, WYO.—The contract for reconstructing the road between this place and Fort Russell has been let to Frank Joslin, Cheyenne, at $5,137.

SEATTLE, WASH.—The following bids were received for the asphalt paving and cement sidewalking of the Summit Ave. district; (1) being the bid for construction, and (2) for ten-years' maintenance: Stirrat & Goetz, (1) $55,961, (2) $3,630; F. McLellan & Co., (1) $54,994, (2) $10,164; Alcatraz Asphalt Paving Co., (1) $51,305, (2) $4,066.

PORTLAND, ORE.—The contract for the improvement of 4th St. has been let to the Carbolicum Wood Preserving Co., at $28,410.

SAN FRANCISCO, CAL.—Ordinances have been passed ordering that the roadway of Van Ness Ave. be repaved with bituminous rock, at an estimated cost of $6,500.

MANUFACTURING PLANTS.

PORTSMOUTH, N. H.—The White Mountain Paper Co., recently organized, is preparing to break ground for its plant, to have a capacity of 200 tons of news print and 300 tons of book paper per week. It has acquired water powers of 30,000 HP. on the Saco and Salmon Falls rivers, and has also 650 miles of timber lands in Central New Hampshire. J. J. McCook, New York; W. B. Plunkett, North Adams, Mass., and Chas. Fletcher, Providence, R. I., are interested.

NIAGARA FALLS, N. Y.—The Frontier Mfg. Co. has been organized, with a capital stock of $70,000. A new factory building will probably be erected in the lower milling district. Carl Steinbrenner, Geo. W. Knox and H. A. Constantine are interested.

PATERSON, N. J.—Quackenbush & Co. will soon award the contract for a 4-story 221 × 83-ft. brick and iron fireproof factory in this city, to cost $150,000. Steam heating and electric light plants and automatic sprinkling apparatus will be installed. Chas. Edwards is Arch.

PLAINFIELD, N. J.—W. J. Smith, 294 South Canal St., Wilkesbarre, Pa., has secured the contract for erecting a 3-sty. brick machine and finishing factory for the Hibbard, Rodman, Ely Safe Co., to cost $40,000.

DURYEA, PA.—The Duryea Knitting Co. is taking bids on a plant at this place to cost $65,000. It will consist of one 2-sty. mill, 150 × 40 ft.; a 2-sty. dye house, 60 × 30 ft.; a 1-sty. boiler house, 25 × 40 ft.; an engine house, 1 sty., 20 × 25, and an office of similar dimensions. The owners are also taking bids on the equipment. Amos W. Barnes, Arch., 900 Walnut St., Philadelphia.

JEANETTE, PA.—The contract for the plant for the Penn Rubber Co., of Erie, has been awarded to Mitchell Bros., South Fork. It will be two stories, 400 × 60 ft., and will cost $125,000.

JOHNSTOWN, PA.—The Century Stove & Mfg. Co. has been incorporated with a capital stock of $100,000 and will use an old plant at Moxham. Improvements and alterations will probably be necessary. Rowland S. Wilson and Robert Monroe are interested.

NEW CASTLE, PA.—The American Bridge Co. has received the contract for the boiler manufacturing plant to be built by the Pennsylvania Engineering Co. in this place at a cost of $100,000.

NORRISTOWN, PA.—C. E. Schermerhorn, Arch., 420 Walnut St., Philadelphia, has plans under way for a 3-story brick factory building near this place to cost about $50,000.

NORRISTOWN, PA.—The Eureka Knitting Co. will build a new plant or buy and rebuild some existing mill. Edwin Metcalf and E. H. Adams, of this place, are interested.

PHILADELPHIA, PA.—A plant is contemplated by the Holden Ice Machine Co., 837 Real Estate Trust Bldg., to cost $60,000.——C. B. Berger, Arch., 1418 South Penn Square, has completed plans for a 4-sty. factory building at Fifth and Cherry Sts., to cost $25,000. C. J. Rumpf & Son. will own the building.——Crompton & Knowles Loom Works, Worcester, Mass., have plans in progress for the removal of their plant from that city to Germantown Junction. A 4-sty. brick building, 280 × 60 ft., costing about $100,000, will be erected. Joseph Huston, Arch., Witherspoon Bldg., will take bids on the structure and equipment.——C. H. Masland & Sons, Amber and Westmoreland Sts., will build a 5-sty. brick building, 56 × 140 ft., costing $30,000, and will take bids on steam heating and power plant and automatic sprinkling apparatus.

PHILADELPHIA, PA.—Wm. Steele & Sons have posted plans for a 5-story addition to the factory of the North Brothers Mfg. Co., at American St. and Lehigh Ave. It will be of brick, on the slow-burning, mill construction plan, and 40 × 250 ft.——Chas. E. Oelschlager, Arch., 1502 Market St., has plans for a 5-story factory, 44 × 120 ft.

SCRANTON, PA.—The Scranton Lace Curtain Co. will soon award a contract for a 3-story factory building at Glen St. and Meyler Ave. The equipment will also be purchased. The plant complete will cost $20,000.

NEWARK, DEL.—Plans are being prepared by Joseph Huston, Arch., Witherspoon Bldg., Philadelphia, Pa., for a 4-story brick factory building, 200 × 60 ft.

HUNTINGTON, W. VA.—The Starr Engineering Co., 258 Broadway, New York, is taking bids for a 4-story, 100 × 80 ft., cold storage and ice manufacturing plant for C. M. Davidson, of Cincinnati, O.

ROCKINGHAM, N. C.—Chas. C. Hedrick, of the Lowell Machine Works, Mass., is preparing plans for a 2-story, 305 × 77 ft., cotton mill for Leck, Wall & McRae, Rockingham. The cotton machinery will be furnished by the Lowell Machine Shops Co., Lowell. The owners will take bids on a 150-HP. boiler, a 100-HP. engine, belting, shafting, etc.

COLUMBIA, GA.—The Southern Plow Works were burned on April 10, causing a loss of about $250,000.

TAMPA, FLA.—M. Stachelberg, of M. Stachelberg & Co., has decided on the cite for the new factory to be erected in this city. The cost will be about $20,000.

GALLIPOLIS, O.—Frank L. Packard, Arch., is preparing plans for factory buildings for the Gallipolis Furniture Co., together with a power house for the same.

JANESVILLE, WIS.—Nels Carlson has purchased interests in the Rock River Machine Co. and will rebuild the foundry recently destroyed by fire. R. H. Morris is Pres. of the company.

MILWAUKEE, WIS.—H. J. Breeze, Port Huron, Mich., is arranging for the erection of a factory for the manufacture of a pneumatic horse collar, of which he is the inventor. He expects to incorporate a company with a capital stock of $100,000.

WAUSAU, WIS.—The Wausau Sandpaper Co. has been incorporated, with a capital stock of $100,000, and will put up a plant in this town for the manufacture of sandpaper. W. W. Albers, E. C. Kretlow and C. A. Gilbert are interested.

DES MOINES, IA.—A 2-story factory building will soon be erected on West Eighth St. by St. John & Barquist. It will be 44 × 100 ft. Plans have been prepared by Liebbe, Nourse & Rasmussen, Archs., 724 Walnut St.

HOUSTON, TEX.—The contract for the erection of a sugar mill on the Clemens Farm, in Brazoria county, has been let by Governor Sayers to R. L. Heflin, of Galveston. The plant will cost $268,500.

FAIRHAVEN, WASH.—A site has been secured for a cannery in this place, to have a capacity of 70,000 cases. Deming, Gould & Co., Chicago, are the promoters.

TACOMA, WASH.—J. O'B. Scobey, receiver of the Olympia Land Office, has requested the Commercial Club of North Yakima to provide a site for a new cannery at that place.

WALLA WALLA, WASH.—Jacob Betz, ex-Mayor, is about to leave for the east to buy material and place stock for a $90,000 brewery to be built in this city. It will be five stories, of brick and steel construction.

REDDING, CAL.—E. F. Ware, Gen. Mgr. Mt. Shasta Mining Co., has secured valuable mining claims near the Delamar smelter at Bully Hill, and, it is stated, will locate a new smelter at that place.

SALT LAKE CITY, UTAH.—J. R. Smith will erect a flour mill at Eighth South and Third West Sts., with a capacity of 225 bbls. per day.

MISCELLANEOUS CONTRACTS.

PIER REPAIRS.—Babylon, N. Y.—Orders for the immediate repair of the state pier here have been issued.

PARK IMPROVEMENT.—Baltimore, Md.—F. L. Olmsted, Landscape Arch., is to prepare plans for the improvement of Wyman Park.

BATH HOUSE REPAIRS.—New York, N. Y.—Bids are asked by the Brooklyn Borough President until April 23 for repairing five floating baths.

DOCK.—Detroit, Mich.—Plans for a 150-ft. dock for H. Scherer & Co. have been prepared by Louis Kamper, Arch., 10 Miner's Bldg., Detroit.

POLICE SIGNAL SERVICE.—New York, N. Y.—Police Commissioner Partridge has asked the board of estimate for $100,000 for a police signal system.

DOCK.—Benton Harbor, Mich.—It is reported that the Cleveland, Cincinnati, Chicago & St. Louis R. R. is to construct a dock, 800 ft. by 500 ft., on the canal.

ENGINE.—Pittston, Pa.—It is reported that the J. P. Delehanty, Delehanty Dyeing Machine Co., Pittston, desires prices on a 100 to 125-c. p. horizontal engine.

RECEIVING TOMB.—Providence, R. I.—A resolution has been passed for the borrowing of $30,000 for the erection of a receiving tomb at the North Burial Grounds.

DREDGING.—Wheeling, W. Va.—Bids are asked until May 13 for dredging in Ohio River, as stated in our advertising columns. Capt. W. E. Craighill, U. S. Engr.

STEAM ROAD ROLLER.—Rutherford, N. J.—Bids are asked until April 25 for a five or six-ton steam road roller, as stated in our advertising columns. Robert Leeds, Boro. Clk.

DREDGING.—League Island, Pa.—Bids are asked until April 26 for dredging about 320,000 cu. yds. at this place. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

PARK.—La Crosse, Wis.—Local press reports state that ex-Mayor A. W. Pettibone is to present Barron's Island to this city for a park, and that $300,000 will be spent in beautifying it.

TELEPHONE WORK.—Minneapolis, Minn.—It is reported that Northwestern Telephone Exchange Co. intends to expend about $500,000 in extensive improvements to the company's service.

RAILROAD TRACK SCALE.—League Island, Pa.—Bids are asked until April 26 for furnishing 100-ton platform scale. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

WHARF EXTENSION.—Ottawa, Ont.—Bids will be received until April 18 for the construction and extension of the wharf at St. Laurent, P. Q. Fred Gelinas, Secy. Pub. Wks. Dept., Ottawa.

TELEGRAPH SUPPLIES.—Portland, Ore.—It is reported that the Western Union Telegraph Co. is to install new machines and storage batteries here, entailing an expenditure of $10,000.

WHARF.—Fort Getty, S. C.—Bids will be received until May 14 for constructing steel and iron wharf and excavating channel and basin, as stated in our advertising columns. David Price, Q. M.

MAIL TUNNELS.—Chicago, Ill.—According to reports the Illinois Telephone & Telegraph Co. is to ask for an additional franchise for the right to transmit mail, parcels, etc., through underground tunnels.

DREDGING.—Boston, Mass.—It is said that the harbor and land committee has decided to report to the legislature a bill appropriating $100,000, of which $25,000 is to be spent yearly, for dredging Dorchester Bay.

OIL STEAMER.—Newport News, Va.—The contract for an ocean-going oil steamer for the Saginaw Steel Steamship Co. has been let to the Newport News Shipyard. The vessel is to be of 10,000 tons, 400 ft. long, 50 ft. beam and 20 ft. draft.

TUNNELS AND CONDUITS.—Agricultural College, Mich.—Bids are asked until April 23 for constructing about 4,000 ft. of conduits and tunnels for a heating and lighting system. Chas. L. Weil, Consult. Engr., Agricultural College, Mich.

LIFE SAVING STATIONS.—Washington, D.C.—Bids will be received until April 29 for the construction of life saving tsations at Squaw Beach, and Long Beach, N. J. as stated in our advertising columns. S. I. Kimball, Supt. U. S. Life Saving Service.

TELEPHONE PLANT IMPROVEMENTS.—Findlay, O.—A local press report states that the Home Telephone Co. is to double the capacity of its plant in this city. New equipment is also to be added. The company will spend about $50,000 for this work.

OIL PIPE LINE.—Beaumont, Tex.—It is reported that the Texas Co., an oil pipe line corporation recently incorporated with a capital of $3,000,000, with its principal office at Corsicana, is to build a pipe line system between the Beaumont oil fields and Port Arthur.

LIGHT-HOUSE ARTICLES.—Tompkinsville, N. Y.—Bids are asked until May 9 for furnishing miscellaneous articles for the light-house for the year ending June 30, 1903, as stated in our advertising columns. Maj. W. T. Rossell, U. S. Engrs., 3d Light-House District.

FIRE DEPARTMENT NEEDS.—Cohoes, N. Y.—The fire board is urging the purchase of 4,000 ft. hose at a cost of $2,600; two combined chemical engines and hose wagons, $3,200; three fire alarm strikers, $2,000; steam fire engine, $4,000; in addition to several other fire department utilities.

METAL WORK, MATERIALS, ETC.—Baltimore, Md.—Bids are asked until May 10 for furnishing material and labor for the completion of the metal work for Hambrook Bar Beacon Light, Md., as advertised in Engineering News. Lieut.-Col. W. A. Jones, U. S. Engrs., P. O. Bldg., Baltimore, Md.

FIRE ENGINE REPAIRING, ETC.—New York, N. Y.—Bids are asked until April 25 for repairing double pump Clapp & Jones steam fire engine, for furnishing 150 tons coal, for 50 miles No. 10 copper telegraph wire and for lumber. Thos. Sturgis, Fire Commissioner, 157 E. 67th St., New York.

WHARFS, DOCKS, ETC.—Chester, Pa.—The contract for docks, wharfs, etc., on the Delaware River at this place, for the Payette Mfg. Co. has been let to Armstrong & Printenzenhoff, Land Title Bldg., Philadelphia. The structures are to be built on piling, and the cost of the work is said to be $400,000.

HARBOR AND RIVER WORK.—Washington, D. C.—The sundry civil bill, as reported to the house, includes the following items: For completing the Illinois & Mississippi Canal, $733,220; improving harbor, Calumet, Ill., $215,000; for harbor, Gulf Port, Miss., $150,000; improving Mississippi River from mouth of Ohio to Minneapolis, $250,000.

SWITCHBOARDS.—Washington, D. C.—Walter C. Allen, District Elec. Engr., writes us that the following bids were received April 5 for two switchboards: General

Electric Co., Baltimore, $2,847; General Electric Co., Baltimore, $2,300 (alternate bid; not in accordance with specifications); D'Olier Engineering Co., Philadelphia, $2,845; F. A. La Roche Co., New York, $2,825; Western Electric Co., New York, $2,917; McCay Engineering Co., Baltimore, $2,939; Johnson & Morton, Utica, $2,415; National Electrical Supply Co., Washington, $3,048. The contract was awarded to Johnson & Merton.

CONTRACT PRICES.

SEWERS.—Plattsburg, N. Y.—Horace Andrews, Engr., Improvement Comn., 51 State St., Albany, N. Y., informs us that the following bids were received April 12 for furnishing the materials and for constructing sewers in Plattsburg; advertised in Engineering News: B. H. Harrison & Sons Co. will make reduction of $500, and De Nallo & Spediecci $571, if allowed to postpone commencement of work until May 15; contract awarded to De Nallo & Spediecci:

MACADAM PAVING.—Sheboygan, Wis.—We are informed that the following bids were received April 7, 1902, for macadam paving in No. 7th St., (1) 5,489 ft. of combined curb and gutter; (2) 190 sq. yds. brick crosswalk; (3) 11,434 sq. yds. macadam. C. U. Boley, Cy. Engr.; contract let to John Braun:

	(1)	(2)	(3)	Total.
H. & Nelson I. Johnson, Racine.	$0.58	$1.55	$0.91	$13,882
H. C. Schette, Manitowoc, Wis.	.57	1.60	.92	13,951
R. R. Birdsall, Racine, Wis.	.60	1.49	.93½	14,261
Reichert Const. Co., Racine	.59	1.50	.97	14,614
John Braun, Sheboygan	.54	1.25	.91	13,006

SEWERS.—Dunkirk, N. Y.—The following contract for sewers was let April 1, 1902, to Jacob Rider, of this city: Bass St.—Sewer pipe, 2,028 ft., 98 cts.; Y-branches, 170, $1.50; lampholes, 4, $3; curves, 6, $2.50; T-branches, 2, $1.50; iron pipe, 17,610 lbs., 2 cts.; total, $2,625. 4th St.—Sewer pipe, 1,800 ft., 61 cts.; Y-branches, 60 ft., 90 cts.; lampholes, 4, $2; total, $1,160. J. P. Morrissey, Cy. Engr.

Bids Received at Plattsburg, N. Y., April 12, 1902, for Construction of Sewers.

Quantities.	B. H. Harrison & Sons Co.	M. F. Dollard Albany, N. Y.	Messrs. Fitzpatrick & Costello, Plattsburg.	Messrs. Galgano & Rice New Rochelle, N. Y.	J. W. Whalen, Whitehall, N. Y.	Geo. F. Bailey, Albany, N. Y.	D. De-Nallo & Spediecci, Amsterdam, N. Y.	Thos. O'Dea, Cohoes, N. Y.
6-in. cast-iron pipe ... 480 lin. ft..	$1.50	$2.14	$1.95	$2.00	$1.80	$1.25	$2.25	$4.00
24-in. d.s. vit. pipe.....1,467 " "	2.59	2.10	2.46	2.57	3.52	3.40	2.25	2.10
20-in. " " " ..... 489 " "	1.67	1.67	1.95	2.05	3.00	2.30	1.85	1.50
18-in. " " " ..... 951 " "	1.42	1.42	1.93	2.00	2.50	1.60	1.62	1.25
15-in. vitrified pipe .....3,880 " "	1.10	1.13	1.35	1.05	1.50	1.50	1.10	1.05
12-in. " " .....2,856 " "	.86	.96	1.19	.90	1.10	1.00	.68	.98
10-in. " " .....6,296 " "	.55	.88	1.09	.78	.70	.70	.60	.95
8-in. " " ..... 234 " "	.50	.80	.60	.40	.68	.50	.50	.70
6-in. " " ..... 100 " "	.25	.41	.52	.40	.40	.35	.28	.40
24-in. d.s. Y's ..... 1.....	5.20	7.84	7.70	8.00	15.00	9.30	5.75	3.50
20-in. " " ..... 2 each...	3.60	5.64	6.01	6.00	12.00	6.80	5.00	2.58
18-in. " " ..... 32 " ...	2.72	4.56	4.75	4.15	6.00	4.70	3.30	1.90
15-in. Y's ..... 159 " ...	2.16	3.24	3.48	3.20	4.00	3.40	2.00	1.30
12-in. " ..... 114 " ...	1.60	2.64	3.05	3.00	3.00	2.40	1.60	.80
10-in. " ..... 277 " ...	1.20	2.24	2.70	2.00	2.00	1.90	1.25	.60
8-in. " ..... 8 " ...	.80	1.83	2.15	1.20	1.90	1.30	1.00	.40
24-in. d.s. T's ..... 51 " ...	5.20	7.83	7.70	8.00	12.00	9.30	5.50	6.75
15-in. T s ..... 12 " ...	2.16	3.24	3.48	3.20	4.00	3.40	2.00	1.30
6-in. double T s ..... 63 " ...	.50	1.87	.78	1.30	1.00	.50	1.50	3.00
Receiving basins ..... 6 " ...	50.00	60.00	60.00	71.00	65.00	65.00	75.00	90.00
Manholes ..... 32 " ...	46.50	30.00	54.00	65.00	55.00	70.00	35.00	75.00
Lampholes ..... 10 " ...	7.00	13.50	12.50	13.00	14.00	12.00	5.00	15.00
Storm water overflow.. 2 " ...	150.00	100.00	125.00	85.00	100.00	90.00	50.00	150.00
Total	$20,411	$22,918	$27,522	$24,490	$28,339	$25,631	$20,000	$24,371

LAYING WATER PIPE.—Sydney, C. B., Can.—W. G. Yorston, Town Engr., informs us that the following bids were received April 5 for laying about 19,470 ft. of cast-iron water pipe; in the laying of the cast-iron pipe the price includes lead and jute:

DREDGING.—Boston, Mass.—We are informed that the following bids were received April 10 by the harbor and land commissioners: Bay State Dredging Co., 19 High St., 32 cts. a cu. yd.; New England Dredging Co., 185 Summer St., 29½ cts. a yd. (accepted).

Bids Received at Sydney, B. C., Can., April 5, 1902, for Laying Cast-Iron Water Pipe.

Quantities.	Maritime Contracting & Mining Co., Georges River, C.B.	Dini & Cozzolino, Sydney.	M. G. Hennigar, Sydney.	Wm. Horne, North Sydney.	Reid McManus, Sydney.	Thos. Cooke, North Sydney.
Earth excavation	14,431 cu. yds.	$0.50	$0.95	$0.70	$0.75	$0.60	$0.60
Rock excavation	754 " "	3.25	2.95	2.50	2.50	3.00	2.00
Laying 4-in. cast-iron pipe..	100 lin. ft..	.03	.08	.10	.03	.10	.04
" 6-in. " " ..	200 " "	.04	.10	.10	.04	.10	.04
" 8-in. " " ..	100 " "	.05	.12	.10	.04	.10	.04
" 10-in. " " ..	2,110 " "	.06	.13	.10	.05	.10	.04
" 12-in. " " ..	2,070 " "	.08	.14	.10	.06	.12	.04
" 16-in. " " ..	1,790 " "	.15	.16	.12	.10	.14	.08
" 18-in. " " ..	1,400 " "	.30	.17	.15	.15	.15	.08
" 20-in. " " ..	5,200 " "	.75	.18	.20	.16	.18	.08
" 24-in. " " ..	6,500 " "	.80	.20	.20	.18	.18	.08
Setting hydrants	8 each...	3.00	7.00	5.00	5.00	5.00	3.00
Setting 24-in. valves	1.....	4.00	7.50	2.00	3.50	5.00	1.00
" 20-in. "	1.....	3.25	7.00	2.00	3.25	5.00	1.00
" 18-in. "	1.....	2.75	6.50	2.00	3.00	5.00	1.00
" 16-in. "	1.....	2.00	6.00	2.00	2.50	4.00	1.00
" 12-in. "	4 each...	1.50	5.00	2.00	2.00	2.00	1.00
" 10-in. "	5 " ...	1.25	4.50	2.00	2.00	2.00	1.00
" 8-in. "	6 " ...	1.10	3.50	1.00	1.50	1.00	1.00
" 6-in. "	12 " ...	1.00	3.00	1.00	1.00	1.00	1.00
Total		$20,112	$19,973	$16,015	$15,852	$14,437	$11,889

COFFERDAM, ETC.—Washington, D. C.—D. E. McComb, Supt. Sewers, informs us that the following bids were received April 5 for building a cofferdam, façade, walls, etc., as advertised in Engineering News; all local bidders, except Sanford & Brooks, Baltimore:

ELECTRIC LIGHTING.—Edwardsville, Ill.—Alderman F. J. Daech writes us that the following bids were received March 31, 1902, for furnishing electric lights under a franchise: R. F. Tunnell & Co., Edwardsville, $74 per arc light a year; Chas. A. Vallette, Edwardsville, $72 per arc light a year; one 16-c. p. incandescent light, 75 cts.; six or more, 50 cts. each; Clark Smith, Muscatine, Ia., $69.75 per arc light a year; one 16-c. p. light, 50 cts.; 10 or more, 25 cts. each; General Electric Co., St. Louis, Mo., $75 per arc light; Edwardsville Electric Light Co. will light at same rate as any other company.

Bids Received at Washington, D. C., April 5, 1902, for Constructing a Cofferdam, Etc.

Bidder.	Piling 6,500 ft.	Piling 65,000 ft.	Masonry Brick, 88 yds.	Masonry Vit. brk 95 yds.	Concrete "A." 2,015 yds.	Concrete "B," 1,320 yds.	Concrete "C," 920 yds.	Steel beams, 60,000 lbs.	Granite coping, 510 ft.	Total.
Andrew Gleeson	$0.29	$0.28	$10.50	$18.00	$8.90	$6.50	$6.25	$0.04½	$5.50	$75,253
Washington Construction Co.	.30	.25	10.30	17.50	8.00	7.00	6.00	.04½	6.75	72,663
Warren F. Brenizer	.20	.18	12.75	18.20	7.95	7.20	6.10	.032	5.90	64,816
Sanford & Brooks Co.	.19	.19	10.00	17.75	8.25	7.50	6.75	.04	6.50	67,809
G. Gammel.	.36	.36	13.00	22.00	10.00	9.00	8.00	.04¾	3.00	90,955

BRICK PAVING.—Paris, Ill.—The following bids were received March 25 for brick paving in North Main St., as advertised in Engineering News; under paving "A" calls for 1 part natural cement, 3 parts gravel and 3 parts crushed stone; "B" calls for 1 part Portland cement and 9 parts gravel; W. C Lemen, Cy. Engr.:

Bids Received at Paris, Ill., March 25, 1902, for Brick Paving.

Bidder.	Excavation, 7,100 cu.yds.	Limestone curb, 1,220 ft.	Resetting curb, 600 ft.	Combd curb and gutter, 6,000 ft.	Brick paving A Clinton brick.	Brick paving A Terre Haute block.	Brick paving A Brazil brick, 12,700 yds. of each.	Brick paving B Clinton brick.	Brick paving B Terre Haute block.	Brazil brick, joints.	Cement grout filler; expsn 12 each.	Storm water inlets Corners, 12 each.	Storm water inlets Intermediate, 11 each.	Storm drains laid complete 12-in., 300 ft.	Storm drains laid complete 10-in., 1,000 ft.	Storm drains laid complete 8-in., 800 ft.	Total.
Kegan Bros., Brazil, Ind.	$0.30	$0.50	$0.15	$0.55	$1.31	$1.38	.....	.....	$1.45	.....	$0.10	$14.00	$12.00	$0.18	$0.12	$0.10	$25,480
Capitol Paving & Const'n Co., Indianapolis, Ind...	.25	.50	.10	.47	...	...	$1.26	.....	...	.....	.08	15.00	15.00	.20	.20	.20	23,045
Millar & Hampton, Charleston, Ill.	.20	.42	.10	.49	...	1.33	...	.....	1.35	.....	.10	15.00	15.00	.25	.22	.20	23 893
Troy Porter Paris, Ill.	.28	.50	.10	.60	1.28	...	...	.....	...	.....	.10	16.50	15.00	.20	.20	.20	24,489
Wolf, Maupin & Curdie, Alton, Ill (accepted)....	.21	.45	.05	.44	1.20	1.24*	1.28	$1.34	1.29	$1.33	.08	12.00	12.00	.30	.25	.20	22,250
J. W. Stewart, Freeport, Ill.	.25	.45	.05	.60	...	1.383	...	...	...	...	.02	12.50	12.50	.50	.27	.24	24,645
Jno. F. Bretz & Son, Springfield, Ill.	.23	.45	.10	.45	1.32	1.29	...	1.34	1.31	...	.10	12.00	10.00	.40	.36	.32	23,585
M. A. Talbot & Co., Logansport, Ind.	.25	.45	.10	.49	1.44	1.41	1.43	1.50	1.47	1.49	.10	11.00	10.50	.50	.44	.37	25,615
H. C. Finley, Hoopeston, Ill.	.25	.50	.20	.60	1.28	1.28	1.28	...	...	...	.12	18.00	16.00	1.00	.90	.75	25 803
Morrissey & Lynch, Paris, Ill.	.25	.45	.10	.56	1.23	1.23	...	1.22	1.22	...	.10	15.00	15.00	.20	.20	.20	23,400
D. W. Norton & Co., Terre Haute, Ind.	.25	.43	.10	.38	1.29	1.26	...	1.34	1.31	...	.10	6.00	6.00	.40	.35	.30	22,760
Geo. W. Prutsman, Danville, Ill	.25	.45	.10	.48	1.26†	1.24	1.25	...	...	...	.10	15.00	15.00	.35	.25	.20	23,142
Engineers estimate	.25	.55	.10	.60	1.30	...	...	...	...	...	.10	15.00	15.00	.22	.20	.15	24,617

*Any preferred brick. †Also Poston block.

SEWER PIPE.—Fitchburg, Mass.—Dav[illegible] Cy. Engr. writes us that the following [illegible] awarded March 24, 1902 for furnishing t[illegible] partment with sewer pipe, etc., for 1902: [illegible] block paving, R. J. Langefeld & Co., W[illegible] block paving, pebble and sand joints, 2[illegible] bed additional 38 cts., pebble and pitch joi[illegible] with bed additional 76 cts.; sewer pipe, E[illegible] & Co., Fitchburg, car load lots sizes as or[illegible] count from list; granite paving blocks, F[illegible] Fitchburg, $58 per M. delivered on the [illegible]

ELECTRIC LIGHT POLES.—Nashvill[illegible] board of public works has awarded the [illegible] tract to the J. P. Meredith Cedar Co., of M[illegible] for furnishing 300 poles for electric ligh[illegible] pole, 200, $2.40 each; 30-ft. pole, 100, $3.40 [illegible]

SEWER SUPPLIES.—Worcester, Mass.—[illegible] formed that the following contracts were [illegible] 1902, for furnishing sewer supplies for the [illegible] Frank E. Powers, Worcester, Portland cem[illegible] cars in barrels, $1.44 on cars in cloth bags; [illegible] Fish Co., Boston, Rosendale cement, 88 cts. [illegible] barrels, 73 cts. on cars in cloth bags; [illegible] Worcester, brick contract, $10.50 per 1,000 o[illegible] struck brick); John Doyle, Worcester, team[illegible] at varying prices. Vitrified pipe contract to [illegible] later.

SCREW PIPE.—Santa Barbara, Cal.—We [illegible] that the contract for furnishing 18,000 ft. of [illegible] pipe has been let to Rolden & Ott, of Santa [illegible] 14.1 cts. a lin. ft., f. o. b. city.

PORTLAND CEMENT.—Washington, D. C.—[illegible] S. Sewell, U. S. Engr., P. O. Box 455, informs [illegible] following bids were received April 12, 1902, [illegible] ing 15,000 bbls. of Portland cement for use [illegible] Government Printing Office; all bid 10 cts. on [illegible] returned, except the National Mortar Co. and [illegible] ford Co., who bid 5 cts. each: Barber & Ro[illegible] ington, $1.39½, Whitehall; Alpha Portland Cement Co., New York, $1.31½, Alpha; Atlas Portland Cement Co., New York, $1.39, Atlas; National Mortar Co., Washington, $1.28, Old Dominion; Littell Wilson, agent, etc., Washington, $1.29¾, Dragon; Brennan Construction Co., Washington, $1.42½, Nazareth; Cranford Paving Co., Washington, $1.39, Vulcanite.

WATER-WORKS.—New Glarus, Wis.—We are informed that the following bids were received April 4, 1902, for water-works, as advertised in Engineering News: W. G. Kirchoffer, Consult. Engr., Baraboo, Wis.; (1) being for about 127 tons of 8 and 6-in. pipe; (2) 2.58 tons of 4-in. c.-i. pipe; (3) furnishing and laying 4,527 ft. of 8-in. c.-i. pipe; (4) 2,130 ft. of 6-in.; (5) 258 ft. 4-in.; (6) laying only, 4,527 ft. 8-in.; (7) 2,130 ft. 6-in.; (8) 258 ft. 4-in.; (9) 17 hydrants; (10) one water crane; (11) four 8-in. valves; (12) three 6-in.; (13) one 5-in.; (14) 6,553 lbs. of lead; (15) one reservoir; (16) specials, 7,774 lbs.; (17) valve boxes, seven: Luchinger & Co., Monroe, Wis., lump bid, $8,235, not including reservoir; E. J. Manning, Monroe, (1) $28.75, (2) $29.75, (6) 63 cts., (7) 38 cts., (8) 38 cts., (9) $25, (11) $18.75, (12) $12.75, (14) 4¾ cts., (16) 2.5 cts., (17) $3.50, total $8,620, and $3 extra for testing each hydrant; P. W. Galloway, Racine, Wis., (1) $29.10, (2) $30.10, (6) 44 cts., (7) 41 cts., (8) 39 cts., (16) 2.5 cts., total $8,344, rock excavation, $1.90 a cu. yd.; Western Engineering Co., Chicago, (1) $29.60, (2) $30.60, (3) $1.11, (4) 87 cts., (5) 20 cts., (6) 45 cts., (7) 38 cts., (8) 34 cts., total $8,845, rock excavation, $3; John M. Healy, Chicago, (1) $30.25, (2) $31.25, (3) $1.03, (4) 86 cts., (5) 68.5 cts., (6) 38 cts., (7) 38 cts., total $8,100 (accepted), includes hydrants and valves, rock excavation, $2; R. O. Nelson, Columbus, Wis., (15) $870; J. W. Mitchell, Madison, Wis., (15) $770 (accepted); U. S. C. I. Pipe & Foundry Co., Chicago, (1) $29.60, (2) $30.60, (16) 2.5 cts.; Samuel Isley, Monroe, (15) $1,054; Bowman & Krister, Monroe, (15) $1,595; Rensselaer Mfg. Co., Monroe, (9) $25.75, (10) $52, (11) $18.40, (12) $12, (13) $11.25, (17) $3.50 (accepted, Corey hydrants and Rensselaer valves); Sweet & Doyle, Cohoes, N. Y., (9) $26.75, (10) $53.50, (11) $17.25, (12) $10, (13) $8.55, (14) 5.1 cts., (17) $3.55; A. P. Wood & Co., Philadelphia, (9) $26, (10) $66.75, (11) $17.25, (12) $12, (13) $10, (17) $4.

GUTTER.—Wyoming, O.—L. W. Mathewson, Engr., informs us that the following bids were received April 5, 1902, for 3,850 lin. ft. of cement concrete combined curb and gutter; Reuben Tyler, Mayor; price per lin. ft. and covers about 5 cu. ft. grading and 7 ins. of packed cinders; for crushed gravel boulder concrete cement, 1 to 7; for gravel concrete, 1 to 5:

Bidder.	Crushed gravel boulders.	Gravel.
Thomas Evans	$0.67	$0.57
W. H. Settle	.60	.56
J. H. McDonald	.60	.56
G. P. Walker	.55	.55
S. J. Osborn, Jr., & Co	.52½	.49
Matt A. Mulligan	.47	.45

U. S. POSSESSIONS AND CUBA.

ELECTRIC RAILWAY.—Havana, Cuba.—Reports state that the Havana Electric Ry. Co. will meet April 30 to vote on the proposition to increase its capital from $11,000,000 to $12,500,000.

WIRELESS TELEGRAPHY.—Alaska.—Bids are asked until April 22 for furnishing and installing a complete system of wireless telegraph in Alaska. Gen. A. W. Greely, Ch. Signal Officer, War Dept., Washington, D. C.

RAILROAD.—Cuba.—H. M. Wood, of Havana, Cuba, is understood to have been engaged on preliminary work on the proposed railway between Matanzas and Cardenas via Camarioca and Sale, about 21 miles, with a branch from Sale to Guasima, about 18 miles.

CONTRACT PRICES.

BRICK SEWER.—Newark, N. J.—We are informed that the following bids were received April 3 for constructing 3,600 ft. of brick sewer; Ernest Adam, Cy. Engr. of Dept. of Streets and Roads; all bidders of Newark:

Bids Received at Newark, N. J., April 3, 1902, for Construction of a Brick Sewer.

Bidder.	Harrison Construction Co.	B. J. Sullivan, New York.	Headley & Christie.	Patrick Reynolds.
84 [illegible]6-in., on piles.....average cut 14½ ft.. 50 lin. ft..	$45.00	$50.00	$78.65	$50.00
[illegible] concrete cradle .. " " 18½ " .. 600 " "	21.40	18.50	24.29	20.00
[illegible] bottom boards .. " " .. .. 600 " "	20.40	17.50	18.47	18.00
81 [illegible]7-in., conc. cradle. " " 11½ " .. 90 " "	18.40	17.00	15.94	16.00
[illegible] bottom boards... " " .. 100 " "	17.40	16.00	14.52	14.00
72 [illegible]78-in., conc. cradle " " 11 " .. 300 " "	14.32	13.00	13.97	13.00
[illegible] bottom boards... " " .. .. 340 " "	13.65	12.00	12.78	12.00
68 [illegible]76-in., conc. cradle " " 9½ " .. 70 " "	12.40	13.00	13.03	11.00
[illegible] bottom boards... " " .. .. 100 " "	12.80	12.00	12.68	10.00
54-in. brick sewer..... " " 11 " .. 280 " "	9.25	8.00	9.07	8.00
51-in. " " ..... " " 10 " .. 1,050 " "	8.20	7.00	6.50	6.00
30 [illegible]42-in. brick sewer. " " 9 " .. 100 " "	7.00	5.00	5.74	6.00
16-in. underdrain ..... 2,000 " "	1.15	1.00	.75	.50
8-in. underdrains ..... 1,000 " "	1.00	1.00	.73	.45
6-in. vertical house connnections..... 130 " "	....	1.00	.50	6.00
Receiving basins ..... 3 each...	100.00	100.00	90.00	100.00
Manholes ..... 23 " ...	35.00	40.00	22.00	30.00
Total	$58,876	$52,369	$56,651	$49,884

HIGHWAY BRIDGES.—Illinois.—Maj. J. H. Willard, U. S. Engr., Chicago, Ill., received the following bids March 27, for furnishing the materials and for constructing the superstructure of six steel highway bridges of the Illinois & Mississippi Canal:

Bids Received at Chicago, Ill., March 27, 1902, for Constructing Bridge No. 11, I. & M. Canal.

Quantities.	King Bridge Co., Cleveland.	Wallace Marshall, Lafayette, Ind.	Modern Steel Strctrl Co., Waukesha, Wis.	Wisconsin Bridge & Iron Co., Chicago.	Chicago (Ill.) Bridge & Iron Co.
Steel ..... 115,400 lbs.....	$0.0470	$0.0385	$0.0403	$0.0420	$0.0415
Oak ..... 8,000 ft.,B.M.	40.00	37.50	47.00	40.00	45.00
Pine ..... 7,500 " "	40.00	33.50	35.00	38.00	35.00
Fir ..... 7,500 " "	36.00	33.00	43.00	40.00	35.00
Totals: Using pine lumber.....	$25,875	$21,380	$22,689	$23,340	$23,189
Using fir lumber	25,728	21,361	22,983	23,414	23 189

The bids on bridges 16, 17, 18, 17A and 18A, were the same, except the Kings Bridge Co., which bid 4.8 cts. a lb. for steel for 16, 17 and 18, and 4.6 cts. for 17A and 18A. The quantities for these bridges are as follows: For Nos. 16, 17 and 18, 98-ft. span each (No. 11's span was 128 ft. 7 ins.), steel, 204,900 lbs. lumber, 18,600 ft.; Nos. 17A and 18A, 110-ft. spans, each, steel, 163,740 lbs.; oak, 13,700 ft.; pine and fir, 12,500 ft; the totals in the table include all six bridges.

WATER-WORKS.—Matawan, N. J.—We are informed that the following bids were received April 2 for constructing water-works:

Bids Received at Matawan, N. J., April 2, 1902, for Constructing Water-Works.

Quantities.	Edwin Beerhorn, 62 Wall St., New York.	E. A. Matthews, 13 Park Row, New York.	H. A. Miller Wilmington, Del.	S. M. Neff, 120 Liberty St., New York.	C. L. Parmelee, 30 Webster Pl., Orange, N. J.	Wm. J. Smith, Spring Lake, N. J.	Holmes & Cogan, Jersey City, N. J.
500,000-gallon pumps ..... 2 each...	$2,200.00	$1,700.00	$1,335.00	$1,700.00	$2,500.00	$2,282.00	$2,040.00
150-HP. heater. ..... 1.....	200.00	200.00	135.00	150.00	300.00	50.00	255.00
75-HP. boilers ..... 2 each...	2,250.00	2,400.00	2,000.00	3,000.00	3,000.00	2,280.00	1,990.00
150-HP. feed pump. ..... 1.....	115.00	60.00	75.00	75.00	100.00	75.00	75.00
Steam and water pipe fitting, lump bid.....	2,350.00	2,300.00	800.00	2,800.00	2,500.00	2,400.00	750.00
Steel stack, lump bid	500.00	225.00	250.00	300.00	250.00	450.00	325.00
Power-house	3,126.00	3,270.00	3,300.00	3,300.00	4,500.00	3,100.00	3,200.00
Filter	3,135.00	3,200.00	2,900.00	3,100.00	3,500.00	2,600.00	2,250.00
Dam	1,600.00	1,550.00	1,569.00	1,500.00	1,600.00	1,500.00	1,500.00
Fire hydrants ..... 50.....	1,415.00	1,300.00	1,550.00	1,300.00	2,400.00	1,600.00	1,700.00
Water gage	195.00	100.00	110.00	80.00	130.00	150.00	75.00
10-in. cast-iron pipe..... 2,850 lin. ft..	3,477.00	3,790.50	3,705.00	3,619.50	4,275.00	3,420.00	3,277.50
6-in. " " ..... 6,075 " "	4,009.50	4,738.50	4,252.50	4,799.25	5,467.50	3,888.00	4,252.50
8-in. " " ..... 2,430 " "	2,284.20	2,502.90	2,259.90	2,405.70	2,916.00	2,187.00	2,187.00
4-in. " " ..... 11,065 " "	5,421.85	6,307.05	4,979.25	6,528.35	7,745.50	4,757.95	5,311.20
10-in. cast-iron valves ..... 6 each...	157.50	180.00	184.50	162.00	180.00	162.00	180.00
8-in. " " ..... 2 " ...	40.70	48.00	45.00	44.00	48.00	42.00	52.00
6-in. " " ..... 10 " ...	142.50	170.00	170.00	160.00	160.00	150.00	170.00
4-in. " " ..... 17 " ...	172.55	204.00	178.50	195.50	204.00	182.75	187.00
Total	$34,332	$35,196	$30,399	$35,819	$42,976	$32,337	$30,677
Time at $10 a day. .....days	154	75	60	60	120	100	90

ROAD BUILDING, ETC.—Boston, Mass.—The following bids were received April 1 by the Metropolitan Water Board for excavating soil from Wachusett Reservoir and building part of Worcester St., West Boylston; Meskill Bros. & Leahy were awarded the contract:

Bids Received at Boston, Mass., April 1, 1902, for Constructing Road, Etc.

Quantities.	Meskill Bros. & Leahy, Everett.	Aug. Saucier, So. Framingham.	McCarthy & Gill, Somerville.	Richmond F. Hudson, Melrose.	Newell & Snowling Con. Co., Ux-bridge.	Cenedella Bros., Milford.	F. N. Lewis & Co., Herkimer N. Y.
Earth excavation .....32,500 cu. yds.	$0.25	$0.245	$0.265	$0.26	$0.27	$0.28	$0.39
Dry paving ..... 60 " "	3.40	2.50	3.00	2.70	3.00	2.00	3.00
Rubble masonry laid dry ..... 10 " "	5.50	5.50	4.00	5.25	3.00	2.00	4.00
Rubble masonry laid in mortar ..... 120 " "	6.65	9.00	6.50	7.25	4.50	7.00	5.50
Split stone masonry in mortar..... 55 " "	10.00	15.00	15.00	13.50	12.00	25.00	10.00
Laying 5-in. sewer pipe for side drains.. 1,600 lin. ft..	.10	.10	.10	.15	.15	.20	.25
" 12-in. " " " culverts..... 275 " "	.09	.15	.10	.15	.20	.10	.35
" 15-in. " " " culverts..... 60 " "	.15	.20	.10	.16	.22	.15	.50
" 14-in. cast-iron pipe for culverts.. 56 " "	.50	.20	.05	.29	.60	.30	.75
Overhaul, equiv. to 50,000 yds. hauled..... 100 " "	.005	.01	.01	.015	.02	.01	.015
Total	$10,207	$10,797	$11,134	$11,334	$11,527	$12,328	$15,423

FOREIGN CONTRACTS—EXPORT NEWS.

ENGINE, ETC.—West Hartlepool, Eng.—Bids are asked until April 30 for a 200-HP. engine and dynamo, etc. H. F. Friedenrichs, Elect. Engr.

WATER-WORKS.—Cardiff, Wales.—J. A. B. Williams and C. H. Priestley have prepared a report for extending the works, at a cost of about $1,150,000.

FLOATING DOCK.—Jamaica, W. I.—Reports state that the chamber of commerce of Kingston, J., has asked the government to build a floating dry-dock.

RAILWAYS.—Spain.—The government at Madrid proposes to grant concessions for narrow and meter gage railways in several districts, to cost several million dollars.

WAGON ROAD.—Mexico.—Reports state that a wagon road is to be built to connect Mulatos Mine with the Sonora R. R., at a cost of $300,000. Mine lies in roughest part of Northern Mexico. Owners will install reduction works as soon as other transportation than mule can be secured.

MILITARY POST.—Chili.—Jacob Krauss, of Holland, who directed the building of the dry-dock at Talcahuano, Chili, has prepared plans for a military post, to include a floating dock, coal docks, workshops, etc. The work will take about five years to complete.

RAILWAY.—Mexico.—Reports state that the Cordoba & Huatusco R. R. Co. proposes to build branch lines at once to all principal haciendas and flag stations.

STEEL RAILS, ETC.—India.—Bids are asked until April 22 for steel rails, fishplates, bolts, nuts, etc., for the Southern Mahratta Ry. Co., 65 Queen Annes Gate, Westminster, London.

RAILWAY.—Mexico.—Reports state that a railway will be built at once to connect Mexico City with the Pacific Coast. L. F. Loree, Pres. B. & O. R. R. Co., Baltimore, Md., is said to be interested.

ELECTRIC PLANT.—Madrid, Spain.—U. S. Vice-Consul Woods, at Madrid, reports that a company has been formed, with a capital of $960,000, to develop about 3,000 HP., etc., on the Jarama River, about 11 miles from here. Street railways, heating plants, etc., will be built. Supplies will soon be purchased. J. F. Villalta, of Barcelona, Spain, is an importer of American machinery, and may know about this project.

RAILS, ETC.—Victoria, Australia.—Bids are asked until May 15 for furnishing 15,850 tons of steel rails and 1,505 tons of steel fishplates (postponement). Address Agent-General for Victoria, Victoria St., Westminster, London.

RAPID TRANSIT TUNNEL.—Paris, France.—Reports state that the municipal authorities have arranged to build several additional electric underground railways, at a cost of about $37,000,000.

ASPHALTUM CONCESSION.—Colombia, S. A.—The state department at Washington, D. C., has learned that a concession for developing asphalt deposits has been granted to Bidlare, an American.

WATER POWER.—Mexico.—H. P. Chesley, O. A. Holmes and C. A. Mallory, of Sioux City, Ia., propose to build a power plant on the Cupatitzir River, Mex.

WHARF.—Guaymas, Mex.—It is stated that the federal government, Mexico City, has approved an appropriation of $37,000 for constructing a stone wharf at Guaymas.

MINING, ETC.—Bolivia, C. A.—Reports state that a company has been formed to develop the territory of Acre, in Northwest Bolivia. The country is rich in India rubber, gold, coal and petroleum. Sir W. Martin Conway, the explorer, The Red House, Thornton St., Kensington, London, W., is interested.

ELECTRIC LIGHT PLANTS.—Nicaragua, C. A.—Reports state that Weinberg Bros., of New Orleans, La., who are interested in the Bluefields Steamship Co., have secured the concessions for erecting and operating electric plants in Managua, Granada, Mesaya and Leon. Water power will be used. It is understood that part of the machinery has already been contracted for.

MINING, ETC.—Russia.—Reports state that a mining and trading concession has been given John Rosene, of Seattle, Wash., U. S. A., and Col. Wonlarlarsky, of St. Petersburg. Associated with them are certain noblemen and capitalists in the U. S. and Europe. The grant comes from Russia, and is for Siberian territory. The concession comprises, for gold mining and trading purposes, an area lying beyond Bering Sea.

MILL, ETC.—Honduras, C. A.—J. Francis Patch-Le Baron, Ch. Engr. American-Honduras Co., of Cleveland, O., writes us that the company has completed plans for a mill on its grant at Rita Tara, including a sawmill, woodworking machinery, barrel and shingle making machines, rice and coffee hullers, polishers, grist mills, sugarcane mill, etc., in all 15 machines. The first load of tools and machinery has arrived. Work on the jetties at the mouth of the Patuca River was commenced Feb. 28.

PORT WORKS.—France.—M. Aimond, Deputy, Paris, has submitted a report upon the port work under way and that projected. At Dunkirk the harbor entrance is being dredged, dock yards are being built, etc., and about $500,000 was spent. The proposed lengthening of two docks, improving fortifications, etc., will cost about $5,000,000. At Dieppe work costing $1,010,000 is proposed. Docks, quays, etc., at Havre, to cost about $4,000,000, are projected. Port work at Nantes is estimated to cost about $4,400,000, and at Bordeaux about $2,500,000. It is stated that other work is proposed at Boulogne, Cette, Bayonne, etc.

RAILWAYS.—Guatemala, C. A.—The following railways are projected in Guatemala: From Quetzaltenango to Retalhulen, 42 miles; from Quetzaltenango to the city of San Marcos, 32 miles; from Escuintla to Barberena, 29 miles; from Guatemala to Antigua, 27 miles; from Panajach to Coban, 50 miles; from Zacapa to the frontier of Salvador, in the direction of Santa Ana, 86 miles; from Santa Maria, on the Central R. R., to Hachadura, on the frontier of Salvador, 60 miles. The railways of Guatemala are owned by the Central R. R. Co., the Champerico R. R., the Ocos R. R., the Northern R. R. and the Patulul-Mazatenango R. R., all of Guatemala City.

RAILWAY.—Russia.—The "Journal de la Chambre de Commerce de Constantinople" states that the projected railway between Sebastopol and Yalta, the surveys for which had been authorized about a year ago, has now received the imperial sanction. The work of construction will commence this spring. This line, which will have a length of about 55 miles, will establish communication between St. Petersburg and Livadia. Its starting point will be the station at Sebastopol, and its terminus the future station at Yalta, the situation of which has not yet been determined. The estimated cost for work and materials is 8,500,000 roubles (rouble = 2s. 1½d.), of which sum Russian capitalists have guaranteed 2,000,000 roubles. The Russian government reserves the right to purchase the line at any time.

POWER PLANTS.—Mexico.—Press reports state as follows: A syndicate composed, among others, of Chauncey M. Depew, Edward V. W. Rossiter, of the N. Y. C. & H. R. R. R. Co., and Clinton L. Rossiter, formerly Pres. Brooklyn Rapid Transit Co., all of New York, are said to have acquired concessions in Mexico and are to erect a large power plant near Toluca. The concession covers water powers aggregating 8,000 HP. Contracts have been let for the machinery for the smaller plant. The main station will be located about 22 miles from Toluca. Power and light will be furnished to the municipalities of Ternancingo and Tenango, supplying altogether a population of over 100,000.——F. S. Pearson, Consult. Engr. Metropolitan St. Ry., New York, has formed a syndicate, in which Sir Wm. Van Horne, of Montreal, Que., is said to be interested, for constructing a large water power plant in the state of Puebla. A company is to be formed with a capital of about $15,000,000. Plants are to be constructed having an aggregate capacity of 50,000 HP. About $6,000,000 will be expended on equipment.

SAND WASHERS.—Calcutta, India.—Bids are asked until June 11 for furnishing c. f. i., Calcutta, a supply of sand washers for the filter station. The average quantity of sand dealt with per annum may be taken as 1,400,000 cu. ft., and the plant should be capable of dealing with 700 cu. ft. sand per hour. The tender must include the cost of any driving or pumping plant necessary in connection with the washers, as water under pressure is not available at the station. The probable quantity of water required per hour and the pressure at which it should be supplied must be stated. Filtered water will be used for washing the sand. A plan of the works may be had upon application at the offices of "Engineering," London, Eng., and upon this plan the tenderer is requested to suggest the disposition of the sand washing plant. The sand used at Calcutta is finer than that in general use in English works. The time required for the delivery of the plant is to be stated. A copy of drawing of the "Berlin" type washer may also be had upon application, but tenderers are at liberty to suggest any type. Fred Gainsford, Secy. to corporation, Calcutta.

RAILROAD.—Mexico.—Our correspondent writes us that it is reported on what is regarded as trustworthy authority that the Coahuila & Pacific R. R. is about to pass into the hands of the Harriman syndicate. This road is now being built between Saltillo, Mex., and Torreon, and is almost completed. The length is more than 200 kilometers. According to current report, it is the intention of the Harriman interests, should they secure control of the road, to extend it east from Saltillo to the port of Tampico.——A company is being organized at Torreon, Mex., to build and operate an electric railway to connect that city with the mining camps at Inde, El Oro and Guadalupe y Calvo. Juan Brittingham, of Torreon, is said to be interested in the line.——The Mexican Central Ry. Co. has appropriated $2,000,000 to be expended in building new passenger and freight depots, new sidings and branch spurs along the Monterey division of the system. This division was formerly the Monterey & Mexican Gulf R. R., and was recently acquired by the Mexican Central interests.——The Texas-Mexican R. R., which is a

part of the Mexican National Ry. system, will be ready for standard gage trucks on its cars on May 10 between Laredo and Alice, 118 miles. The Monterey division will be opened as a standard gage line about Sept. 15.

RAPID TRANSIT TUNNEL.—London, Eng.—Concerning the purchase of the Underground Electric Ry. Co. of London by an American syndicate, Speyer & Co., of New York, have given out the following statements: "Speyer Bros., of London, Speyer & Co., of New York, and the Old Colony Trust Co., of Boston, Mass., have formed a syndicate for £5,000,000 sterling to take the shares of the Underground Electric Ry. Co. of London, Ltd., which was incorporated in London April 9. The objects of the new company are to include the acquisition and working, in whole or in part, of the future undertakings controlled by the Metropolitan District Electric Traction Co., Ltd., of London, namely, the Baker St. & Waterloo Ry. Co., the Brompton & Piccadilly Circus Ry. Co., the Great Northern & Strand Ry. Co., the Charing Cross, Euston & Hampton Ry. Co., as well as agreements in connection with electrification of the Metropolitan District Ry. and also general powers to carry out other similar works. Stockholders of the Metropolitan District Electric Traction Co. take shares in the new company for their holdings. The articles of association of the new company will provide that Speyer Bros., Speyer & Co. and the Old Colony Trust Co., so long as they shall be shareholders of the new company, or such of them as shall be shareholders, shall from time to time during the period of ten years from the date of the articles, have the right to nominate a majority, for the time being, of directors of the new company, and it is intended that C. T. Yerkes (54 Wall St., N. Y.) shall be one of the directors of the new company and the first chairman of the board of directors. The management of the syndicate will be in the hands of the above named three firms. About one-half of the syndicate has been subscribed for in London and one-half in New York and Boston." Work on the lines will begin at once and will possibly be completed in five years.

CONTRACT PRICES.

RESERVOIR.—Clearfield, Pa.—J. B. Nevling, Secy. Clearfield Water Co., informs us that the following bids were received April 10 for constructing a reservoir of 45,000,000 gallons capacity for the Clearfield Water Co.; the reservoir will be located on Montgomery Creek, four miles from Clearfield; Jas. H. Harlow, Des. Engr., Pittsburg:

Bids Received at Clearfield, Pa., April 10, 1902, for Constructing a Reservoir.

Quantities.	Engineer's estimate.	Jas. G. Stewart, Clearfield.	Walter Bradley & Co., Fulton, N. Y.	Chas. L. Parmelee Orange, N. J.	The Riddell Con. Co., Clearfield.	D. M. Rosser, Kingston, Pa.	Marson & Ryan, Rochester, N. Y.	W.B. Hughes, Clearfield, Pa.	Edgar B. Kay, Ithaca, N. Y.
Clear'g & grubb'g. 20 acres..	$100.00	$300.00	$75.00	$175.00	$130.00	$300.00	$250.00	$125.00	$150.00
Excavation .....40,000 cu. yds.	.40	.71	.60	.66	.75	.60	.61	.61	.51
Soil. .... 500 " "	.35	.71	1.00	.55	1.60	.60	.60	1.20	.90
Puddle .....2,000 " "	1.50	1.25	1.40	1.50	1.30	2.10	.95	1.25	1.00
Concrete masonry.. 300 " "	6.50	6.00	6.50	6.50	8.25	9.00	10.00	8.00	5.50
Rub. masry (alt).. 300 " "	6.50	3.50	6.00	5.50	6.25	5.00	6.00	6.00	4.00
Dim. stone masry. 20 " "	10.00	10.00	18.00	15.00	12.50	18.00	16.00	12.00	10.00
Dry stone paving.. 50 " "	2.75	1.75	4.00	1.35	5.25	2.50	3.50	5.00	2.00
Brick masonry .... 15 " "	8.50	8.00	14.00	13.20	15.00	14.00	14.00	14.00	15.00
Laying 20" pipe*..1,300 lin. ft..	.75	1.44	1.00	1.30	.95	1.25	.93	.90	.60
" 24" " .. 40 " "	1.00	2.18¾	1.58	1.80	1.15	.95	.70	1.10	1.00
" 30" " .. 200 " "	1.75	2.50	2.00	2.65	1.35	2.00	1.45	1.30	2.00
Total	$26,905	$42,972	$35,083	$39,633	$42,639	$41,458	$38,632	$36,374	$30,445

*Cast-iron pipe.

PAVING, ETC.—Red Oak, Ia.—The following bids were received by the council March 28, 1902, for paving; M. O. Allen, Engr., Ottumwa, Ia.; contract let to Magden & Sheely:

Bids Received at Red Oak, Ia., March 28, 1902, for Paving.

Bidders.	Paving.—Flint brick.—Cement. filler.	Sand filler.	Purington blk.—Cement filler.	Sand filler.	Curbing and extra grading.—Bedford stone, per ft.	Berea stone, per ft.	Artificial stone, per yd.	Extra grading, per yd.
Smith & Brown, Chicago.....	$1.92	$1.85	$2.02	$1.95	$0.60	$0.60	$0.45	$0.30
Andrew Jaicks & Co., Kansas City, Mo.	2.29	2.17	2.36	2.22	.80	.75	.54	.35
J. C. Likes, Des Moines, Ia.....	1.77	1.69	1.73	1.81	.56	.56	.34	.35
E. A. Wickham & Co., Council Bl'ffs, Ia	1.96	1.86	1.96	1.86	.59	.60	.39	.18
McShane, Elmore & Co., Omaha, Neb...	1.88	1.78	1.92	1.82	..	.52	.42	.20
Magden & Sheely, Des Moines.....	1.78.62	1.69.62	..	..	..	.54.5	.34.83	.29

INDUSTRIAL NOTES.

EASTMAN, PEASE & CO., 12 Pearl St., Boston, has succeeded the firm of Eastman, Lovell & Co.

THE INDUSTRIAL WATER CO., New York, has moved its office from 13 Wall St. to 126 Liberty St.

THE AMERICAN DIAMOND ROCK DRILL CO., New York, has moved its offices from 120 Liberty St., to 95 Liberty St.

THE BRUNSWICK RAILWAY, MILL & SUPPLY CO., Brunswick, Ga., has been incorporated to continue the business heretofore carried on by C. W. Deming as selling agent. Mr. Deming is Manager of the company.

THE WELLS LIGHT MFG. CO., New York, reports its sales for the month of March, 1902, as more than double those of any other two corresponding months put together. From April 1 to 14 the sales are equal to a full month's business.

THE McKIERNAN DRILL CO., 120 Liberty St., New York, has received from the New Jersey Zinc Co., New York, for its zinc mines at Franklin Junction, N. J., an order for two cross-compound condensing Corliss air-compressors of a capacity of 6,534 cu. ft. of free air per minute each, costing about $50,000.

R. B. CORBETT has purchased the local machinery department of Frank Bros., 66 Broad St., New York, and has consolidated the same with the A. G. Schoonmaker Co., 126 Liberty St. The new company will deal in new and second-hand machinery, making a specialty of repairing electrical machinery, engine cylinders, etc. The factory and yards will be at Newark, N. J.

THE NEW ENGLAND STRUCTURAL CO., Boston, has the contract for furnishing the steel framework for a machine shop, 75 x 150 ft., three stories, for the Jones & Lamson Machine Co., Springfield, Vt. Francis W. Wilson is the Engineer and Architect. The company has contracted to build a power station for the Quincy Market Cold Storage Co., of Boston, to be completed May 1.

NEW COMPANIES.—Johnstown & Croton Telephone Co., Johnstown, O.; $30,000; Clayton Bishop.

Maidag & Dromser Construction Co., No. 77 Montross Ave., Rutherford, N. J.; water purifying apparatus; $10,000; Otto Maidag, Hubert Dresser, Gottfried Piel.

Eastern Utah Asphaltum Co., Price, Utah; $50,000; John B. Milburn, L. M. Olsen, B. R. McDonald.

Medina Quarry Co., Albion, N. Y.; $2,000,000; Bird S. Coler, New York; E. F. Fancher, Albion, N. Y.; William O'Brien, Holley, N. Y.

Thompson Supply Co., 419 Market St., Camden, N. J.; machinery, motors, etc.; $100,000; J. A. E. Thompson, W. A. Way, A. C. Fraser.

Good Roads Trap Rock Co., 525 Main St., East Orange, N. J.; build roads; $300,000; Frank R. Serles, Albert R. Palmer, Walton H. Bond.

Diamond Hill Broken Stone Co., 765 Broad St., Newark, N. J.; manufacture crushed stone; $150,000; Geo. F. Maguire, Edward E. Dean, Nathan F. Giffin.

John Abell Engine & Machine Co., Toronto, Ont.; $1,000,000; S. C. Wood, Robert Kilgour, Clarkson Jones.

W. D. Forbes Co., 1390 Hudson St., Hoboken, N. J.; manufacture machinery, etc.; $100,000; Robert L. Lewis.

Vigo Bridge Manufacturing & Supply Co., Swope Block, Terre Haute, Ind.; $100,000; Gus A. Conzman, J. L. Walsh.

American Brick Machinery Co., 243 Washington St. Jersey City, N. J.; $100,000; Edward Cole, Geo. H. Bontecon, Axel V. Beeker.

New Jersey Locomotive Co., Paterson, N. J.; $100,000; Alfred L. Curtiss, J. Clinton Walker, Fred W. Cooke.

Camden Gas Co., 432 Market St., Camden, N. J.; $400,000; Charles Watson, John M. Kelly, Thos. Y. Smith.

The Norwalk Steel & Iron Co., Norwalk, O.; $1,000,000; John E. Condram, Canton, O.; Echal E. Erickson, Pittsburg, Pa.; F. Prolzman, Allegheny, Pa.

Mississippi Valley Construction Co., Little Rock, Ark.; $100,000; L. M. Wise, Zeb. Ward, Oscar Davis.

Peoples Telephone Co., Kansas City, Mo.; $50,000; John Enoch, St. Charles, Mo.; Henry Wood, William H. Steele, St. Louis, Mo.

Buckeye Engine Co., 15 Exchange Pl., Jersey City, N.J.; $1,000,000; H. S. Gould, J. I. Billings, K. K. McLaren.

Douglas County Telephone Co., Valley, Neb.; $10,000; Mons Johnson, George Cowles, A. R. Dodson.

Golden Rod Telephone Co., Wahoo, Neb.; $50,000; W. H. Hurst, M. M. White, T. E. Parmele.

Greenville Telephone Co., Greenville, Tex.; $25,000; J. T. Young, C. B. Jones, L. A. Clark, Greenville, Tex.

Blakeslee Mfg. Co., Duquoin, Ill.; $50,000; to manufacture engines and machinery; Albert J. Blakeslee, E. T. Blakeslee, S. E. Eaton.

Notona Power & Gas Co., Yankton, S. Dak.; $500,000; W. E. Hoyt, Jacob Ormerod, Oscar Nelson.

Western Lighting Co., 243 Washington St., Jersey City, N. J.; $500,000; W. M. Greene, Nelson R. Vanderhoof.

Cincinnati, Newport & Covington Light & Traction Co., 15 Exchange Pl., Jersey City, N. J.; $10,000,000; E. T. McLaughlin, Henry W. Clark, Jas. C. Converse.

Wonham-Magor Engineering Works, Passaic, N. J.; $20,000; to manufacture railway supplies, etc.; Geo. W. Murray, Chas. R. Howland, Griswold Smith.

U. S. Artificial Marble Co., 15 Exchange Pl., Jersey City, N. J.; $500,000; C. C. Fite, J. H. Kugler, P. W. Ryder.

Riley Engine Co., 123 Montgomery St., Paterson, N. J.; Hawaiian Dredging Co., Honolulu, Hawaii; $5,000; J. R. Parker, G. P. Dennison, W. F. Dillingham.

Columbia River Tramway Co., Spokane, Wash.; $100,000; G. F. McKinney, C. G. Betts.

Tri-Metal Bearing & Supply Co., 15 Exchange Pl., Jersey City, N. J.; manufacture railway supplies; $1,000,000; K. K. McLaren, Louis B. Dailey, H. O. Coughlin.

Grand River Irrigation & Development Co., 15 Exchange Pl., Jersey City, N. J.; $300,000; Horace S. Gould, John I. Billings, K. K. McLaren.

United States Automatic Discharging Car Co., 1 Exchange Pl., Jersey City, N. J.; manufacture cars; $125,000; Clarence G. McDevitt, Aloysius Donnelly, Rose B. Weiss.

Commercial Electric Co., 763 Broad St., Newark, N. J.; $100,000; J. Broadhead Woolsey, Rudolph Heller, James M. Reilly.

Bordentown Mobile & Transportation Co., Bordentown, N. J.; manufacture electric mobiles; $50,000; Lewis O. Vandergrift, Jesse Smith, Edward K. Minnick.

Paulsboro Water Co., Paulsboro, N. J.; $50,000; Benj G. Paul, Geo. C. Laws, Wilson D. Gill.

Creek Indian Gas & Oil Co., Flandreau, S. Dak.; $500,000; Joseph A. Markban, William F. Sh[illegible], Annin W. Gardner.

Fairmont Co-operative Tel. Co., Fairmont, [illegible]; $5,000; C. E. Rupert, George Alley, Frank Palto[illegible].

Mahaska Oil, Gas & Coal Co., Sioux Falls, S. D[illegible]; $1,000,000; Ernir Lyon, Harry E. Davis and [illegible]les T. Charnock.

Crystal Springs Pipe Line & Water Co., Fo[illegible], Colo.; $10,000; Henry M. Fosdick, Jr., Frank Wellman, Walter M. Berry.

American Filter & Manufacturing Co., Cleveland, O.; $10,000; Robert Bailey, Lew O. Gripman, Willis White.

La Harp Vitrified Brick Co., La Harpe, Kan.; $150,000; J. B. Adams, D. R. Nelson, C. C. Frampton.

San Angelo Rapid Transit Co., San Angelo, [illegible]; $10,000; to operate line of automobiles in San An[illegible] A. S. Gantt, A. J. Morgan, C. H. Powell.

Automatic Direct Line Tel. Co., Examiner [illegible], San Francisco, Cal.; $250,000; Joseph A. Stulz, C. [illegible]ayon.

Collins Tel. Co., Collins, Ia.; $10,000; J. F. L[illegible]elter.

Monterey Wheel Co., Monterey, Cal.; $100,[illegible] T. Johnson, C. D. Henry, D. Roderick.

Bakersfield Iron Works, San Francisco, Cal.; $1,000,000; W. F. Chandler, W. A. Jacobs, W. S. Porter.

Pacific Light & Power Co., Los Angeles, Cal.; $10,000,000; H. E. Huntington, I. W. Hellman, A. Bor[illegible].

Northern Trinity Road Co., San Francisco, Cal.; $100,000; J. C. Steele, L. M. Hoffler, G. H. Umbson.

Larrabee Automobile & Manufacturing Co., San Francisco, Cal.; $300,000; C. T. Lewis, A. E. Larr[illegible], H. Palmer.

Massena Electrical Steel Co., New York city; $[illegible],000; M. R. Conley, D. P. Fackler, T. T. Seelye, New York city.

New York & Western Transportation Co., New York city; $300,000; to operate a system of steamers on the Erie Canal, Hudson River and Long Island Sound; George W. Stillwell, Jr., Henry Gallagher, George E. Mo[illegible].

Reeves Engine Co., Randolph St., Trenton, N. J.; $100,000; Clifton Reeves, Linton Satterthwait, Chas. M. [illegible]eath.

American Stave Machine Co., 15 Exchange Pl., Jersey City, N. J.; $250,000; Nathan Erlanger, Sanford E[illegible]nger.

Excelsior Kneading Machine Co., 66 Jackson St., Newark, N. J.; manufacture machinery; $250,000; Albert Schrafft, Fred'k Hinrichson, Walter W. Mowe.

Eastern New York Tel. & Telgh. Co., Hoosick Falls, N. Y.; $50,000; Watson M. Holmes, Ralph D. Smith, Louis Hannseur.

Centreville Co-Operative Tel. Co.; Centreville, Ind.; $5,000; Hardin H. Pielle, Thomas C. Dunbar, Andrew Kramer.

Fulton Light, Heat & Power Co., Syracuse, N. Y.; $150,000; S. W. Bird, Harry Quaid, New York; Robert Randall, Brooklyn.

Automatic Train Controller Co., 312 Market St., Camden, N. J.; equip railroad trains with devices to regulate running; $1,000,000; John L. McLean, Christopher A. Shea, Homer A. Herr.

Crescent City Construction Co., 525 Main St., East Orange, N. J.; $10,000; Charles M. Jesup, Frank B. Crawford, S. B. McConnico.

Caldwell Furnace Foundry Co., 419 Market St., Camden, N. J.; $300,000; James W. Caldwell, Charles T. Johnson.

Tomah Electric & Tel. Co., Tomah, Wis.; $25,000; C. W. Croty, E. C. Schwerer, William B. Naylor.

The Boston Steel & Iron Co., Newark, N. J.; $1,000,000; E. M. Mabie, George F. Maguire, New York; Nathan F. Griffin, Newark, N. J.

Thornycroft Motor Wagon Co., 15 Exchange Pl., Jersey City, N. J.; $900,000; Robert H. Thorpe, John Platt.

Manhattan Contracting Co., 15 Exchange Pl., Jersey City, N. J.; $100,000; David F. Broderick, Sidney T. Chambers, James J. Wilson.

Michigan Construction Co., 419 Market St., Camden, N. J.; $125,000; John J. Patterson, Wm. W. Irvine, Thos. B. Hill.

General Tel. Co., 419 Market St., Camden, N. J.; $100,000; to make telephone appliances; P. Pinity, John W. Muir, Richard Houghton.

Johnstown & Croton Telephone Co., Johnstown, O.; $30,000; Clayton H. Bishop, C. W. Coe, Mark Cook.

Mail Delivery Notice.

The first pages of Engineering News go to press on Monday each week, and the last pages, including "Wants," "Proposals" and "For Sale" cards, about Wednesday noon. All papers for Boston, Philadelphia, Washington and Greater New York should be received **Thursday morning.** All places East of the Mississippi should be reached by Friday afternoon.

If your paper is not received promptly, make a complaint in writing to your local post-office officials. This will cause an investigation, and the complaint will finally reach the office where the delay occurs.

Some "Want" Cards

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New York, April 7, 1902

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Gentlemen: Please stop my card under "Situations Wanted." I received four replies within three days after the publication of the paper containing the advertisement.

Yours truly, "W. A. 14."

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